BROWN UNIVERSITY

CATALOGUE.

1877-~~78~~. 83.

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CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

BROWN UNIVERSITY

1877-78.

PROVIDENCE:
J. A. & R. A. REID, PRINTERS.
1877.

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1877-78.

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CALENDAR FOR 1877-8.

1877.

September 5, *Wednesday.* Annual Meeting of the Corporation.

September 19, *Wednesday.* **Academic year begins** (Third Wednesday in September.)

November 29, *Thursday.* Thanksgiving Day. (No College exercises on Thursday, Friday and Saturday of Thanksgiving week.)

Christmas Holidays, from evening of Friday, December 21st, 1877, to evening of Tuesday, January 1st, 1878.

1878.

January 23, 24, 25, *Wednesday, Thursday, Friday.* Semi-Annual Examinations of College Classes.

January 28, *Monday.* **Second half-year begins.**

February 22, *Friday.* Washington's birthday. No College exercises.

Spring Recess, Saturday, March 30, to Monday evening, April 8.

April 20, *Saturday.* Junior Exhibition.

May 23, 24, 25, *Thursday, Friday, Saturday.* Examination of Senior Class.

May 30,	*Thursday.* Decoration day. No College exercises.
June 11, 12, 13,	*Tuesday*, *Wednesday*, *Thursday.* Semi-Annual Examinations of College Classes.
June 14,	*Friday.* Class Day.
June 16,	*Sunday.* Baccalaureate Sermon.
June 17,	*Monday.* Sophomore Prize Declamation.
June 18,	*Tuesday.* Annual Meeting of the Phi Beta Kappa Society, 9.30 A. M.
June 18,	*Tuesday.* Annual Alumni Meeting in Manning Hall at 4 P. M.
June 19,	*Wednesday.* **One hundred and tenth annual Commencement,** (Third Wednesday in June.)
June 20,	*Thursday.* Meeting of the Corporation.
June 20, 21, 22,	*Thursday*, *Friday*, *Saturday.* Examination for admission to College. Candidates assemble at No. 12 University Hall, at 8 o'clock A. M. They must be in attendance all three days.
	Summer Vacation.
September 4,	*Wednesday.* Annual meeting of the Corporation in Rhode Island Hall (on the first Wednesday in September.)
September 17,	*Tuesday.* Examination of Delinquents in College Studies.
September 17, 18,	*Tuesday*, *Wednesday.* Examinations for admission.
September 18,	*Wednesday.* **Academic year begins.**

CORPORATION.

BOARD OF FELLOWS.

Rev. EZEKIEL G. ROBINSON, D. D., LL. D.,

PRESIDENT.

ALEXANDER DUNCAN, A. M.
Hon. ISAAC DAVIS, LL.D.
Rev. ALVA WOODS, D.D.
Rev. SAMUEL L. CALDWELL, D.D.
Rev. EDWARDS A. PARK, D.D.
Hon. CHARLES S. BRADLEY, LL.D.
HORATIO N. SLATER, A. M.
WILLIAM GAMMELL, LL.D.
Rev. ALVAH HOVEY, D.D.
Hon. ROWLAND G. HAZARD, LL.D
MERRICK LYON, LL.D.

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Hon. BENJAMIN F. THOMAS, LL. D.,

CHANCELLOR.

ZACHARIAH ALLEN, LL. D.
Rev. WILLIAM PHILLIPS, A. M.
Rev. WILLIAM HAGUE, D. D.
Hon. SAMUEL G. ARNOLD, A. M.
Hon. GEORGE HOWLAND, A. M.
Hon. CHARLES THURBER, A. M.
GARDNER COLBY, Esq.
Rev. JOHN C. STOCKBRIDGE, D. D.
MARSHALL WOODS, A. M.
WILLIAM GODDARD, A. M.
*GEORGE L. COLLINS, M. D.
Rev. THATCHER THAYER, D. D.
Rev. HEMAN LINCOLN, D. D.
Rev. ABRAHAM H. GRANGER, D. D.
JEFFERSON BORDEN, Esq.
Hon. J. WARREN MERRILL.
Hon. WILLIAM SPRAGUE, A. M.

* Deceased.

JOHN G. WHITTIER, A. M.
RT. REV. M. A. DEWOLFE HOWE, D. D.
JOSEPH C. HARTSHORN, A. M.
HON. FRANCIS WAYLAND, A. M.
WILLIAM W. KEEN, M. D.
REV. ADONIRAM J. GORDON, A. M.
REV. JAMES B. SIMMONS, D. D.
REV. ALBERT N. ARNOLD, D. D.
REV. WILLIAM H. EATON, D. D.
ALBERT K. SMILEY, A. M.
HON. ROWLAND HAZARD, A. M.
HON. THOMAS DURFEE, LL. D.
EDWIN M. SNOW, M. D.
ARNOLD B. CHACE, A. M.
HORATIO N. SLATER, JR., A. M.
ELIJAH B. STODDARD, A. M.
REV. DANIEL LEACH, D. D.

REV. SAMUEL L. CALDWELL, D. D.,

SECRETARY OF THE CORPORATION.

MARSHALL WOODS, A. M.,

TREASURER.

ADVISORY COMMITTEE OF THE ALUMNI.

Hon. ROWLAND HAZARD, A. M., *Chairman.*
ALEXANDER FARNUM, A. M., *Secretary.*

Hon. FRANCIS W. BIRD, A. M.
SAMUEL S. GREENE, LL. D.
ALBERT HARKNESS, Ph. D., LL. D.
ELIJAH B. STODDARD, A. M.
CHARLES B. GOFF, A. M.

MEMBERS OF THE FACULTY,

AND

OTHER OFFICERS.

REV. EZEKIEL G. ROBINSON, D. D., LL. D.,

PRESIDENT,

Professor of Moral and Intellectual Philosophy.

JOHN L. LINCOLN, LL. D.,

Professor of the Latin Language and Literature, and Instructor in German.

SAMUEL S. GREENE, LL. D.,

Professor of Mathematics and Astronomy.

ALBERT HARKNESS, PH. D., LL. D.

Professor of the Greek Language and Literature.

REV. J. LEWIS DIMAN, D. D.,

Professor of History and Political Economy.

BENJAMIN F. CLARKE, A. M.,

Professor of Mathematics and Civil Engineering.

JOHN H. APPLETON, A. M.,

Newport-Rogers Professor of Chemistry.

T. WHITING BANCROFT, A. M.,

Professor of Rhetoric and English Literature, and Instructor in Elocution.

ELI W. BLAKE, JR., A. M.,

Hazard Professor of Physics.

---

* *Elton Professor of Natural Theology.*

JOHN W. P. JENKS, A. M.,

Professor of Agricultural Zoölogy and Curator of the Museum.

CHARLES W. PARSONS, M. D.,

Professor of Physiology.

ALONZO WILLIAMS, A. M.,

Professor of Modern Languages.

WILLIAM C. POLAND, A. M.,

Assistant Professor of Latin and Greek.

Professor of Geology.

NATHANIEL F. DAVIS, A. M.,

Instructor in Mathematics.

W. WHITMAN BAILEY, B. P.,

Instructor in Botany.

EDWIN E. CALDER.

Assistant Instructor in Analytical Chemistry.

REUBEN A. GUILD, LL. D.,

Librarian.

DANIEL BECKWITH, A. B.,

Assistant Librarian.

Rev. WILLIAM DOUGLAS, A. M.,

Register.

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*At present, instruction in Natural Theology is given by the PRESIDENT of the University.

UNDERGRADUATES.

SENIOR CLASS.

NAME.	RESIDENCE.	ROOM.
Robert Alexander,	*Claremont, N. H.*,	30 U. H.
William Porter Bartlett,	*Allendale*,	30 U. H.
Charles Edwin Bennett,	*Providence*,	473 Friendship St.
Charles Edwin Bigelow,	*West Killingly, Conn.*,	38 H. C.
Frederick Wright Bliss,	*Rehoboth, Mass.*,	9 H. C.
MosesBrownLockwoodBradford,	*Providence*,	4 H. C.
Elon Rouse Brown,	*Watertown, N. Y.*,	23 H. C.
Caleb Ambrose Burbank,	*Providence*,	10 Pitman St.
Robert Willard Burbank,	*Providence*,	10 Pitman St.
Gideon Albert Burgess,	*Providence*,	34 Oak St.
Charles Frederick Butterworth,	*Providence*,	202 S. Main St.
Richard Case,	*Canton, Conn.*,	37 U. H.
Walter Gardner Chandler,	*Douglas, Mass.*,	17 H. C.
Harold Chessman Childs,	*Dorchester, Mass.*,	17 Thayer St.
Willis Gaylord Clarke,	*Rosemount, Minn.*,	91 Chestnut St.
Abel Chalkley Collins,	*Clark's Falls, Conn.*,	53 U. H.
Albert Nelson Dary,	*Pawtucket*,	30 U. H.
Winthrop Carver Durfee,	*Fall River, Mass.*,	35 U. H.
Alfred Updike Eddy,	*Providence*,	380 Benefit St.
William Ely,	*Providence*,	25 Charles Field St.

NAME.	RESIDENCE.	ROOM.
Alfred Nelson Fairbank,	*Fitz William, N. H.*,	2 H. C.
Harry Ormsbee Farnum,	*Providence*,	34 Aborn St.
William Gammell, Jr.,	*Providence*,	52 Power St.
Clarence Miles Godding,	*Providence*,	Camp and Locust Sts.
George Goodwin,	*Providence*,	33 Carpenter St.
Albert Granger Harkness,	*Providence*,	101 Prospect St.
Frank Harris,	*Wrentham, Mass.*,	19 H. C.
Walter Sumner Hayward,	*Brockton, Mass.*,	32 H. C.
Nathaniel Hibbard,	*Vergennes, Vt.*,	15 H. C.
Jules Adolphe Hobigand,	*Providence*,	22 Wheaton St.
George William Hopkins,	*Providence*,	47 Carpenter St.
Charles Taylor Howard,	*Phenix*,	Phenix.
Albert Pierce Hoyt,	*Providence*,	13 Humboldt Ave.
Elton Hoyt,	*Cleveland, O.*,	6 H. C.
Charles Archelaus Huse,	*Worcester, Mass.*,	50 U. H.
Ralph Thrall King,	*Cleveland, O.*,	22 H. C.
Edwin Channing Larned,	*Providence*,	100 Waterman St.
Harry Frederick Lippitt,	*Providence*,	199 Hope St.
John Hale Mason,	*Providence*,	Cooke and Manning Sts.
Stephen Olney Metcalf,	*Providence*,	Wanskuck.
William Brown Martin Miller,	*Providence*,	22 Angell St.
Oliver Buchanan Munroe,	*East Providence*,	Brow St.
Stephen Westcott Nickerson,	*Boston, Mass.*,	43 College St.
Crawford Allen Nightingale,	*Providence*,	59 Prospect St.
Frederick Albert Nightingale,	*Providence*,	59 Prospect St.
Wallace Prescott Palmer,	*Winchester, Mass.*,	43 U. H.
Charles Henry Pendleton,	*Westerly*,	5 H. C.
Charles LeRoy Pulcifer,	*Lake Village, N. H.*,	10 H. C.
James Rea,	*Chicago, Ill.*,	36 H. C.
George William Rigler,	*Suffield, Conn.*,	40 U. H.
Gilman Parker Robinson,	*Providence*,	47 College St.
Cornelius Samuel Savage,	*Hartford, Conn.*,	11 H. C.
Joseph Herbert Shattuck,	*Winchester, Mass.*,	43 U. H.
William Lloyd Slade,	*Providence*,	24½ Kenyon St.
Charles Jason Staples,	*Providence*,	3 Benevolent St.
William Mauran Stockbridge,	*Providence*,	40 Angell St

NAME.	RESIDENCE.	ROOM.
Walter Benjamin Swarts,	*Providence*,	387 Broad St.
William Howard Sweetland,	*Providence*,	4 Abbott Park Place
Willard Brooks Tanner,	*Providence*,	9 Providence St.
John Cyrus Thoms,	*Chicago, Ill.*,	36 H. C.
Lewis Hamilton Torrey,	*Worcester, Mass.*,	50 U. H.
Daniel Arnold Wade,	*S. Abington, Mass.*,	49 U. H.
John Grover Ward,	*Tolland, Conn.*,	37 U. H.
Walter Gardner Webster,	*Providence*,	108 Clifford St.
George Franklin Weston,	*Hancock, N. H.*,	40 U. H.
Bennett Rollin Wheeler,	*Providence*,	183 S. Main St.
Samuel Nelson Wheeler,	*Mystic, Conn.*,	16 H. C.
Freeman Tupper Whitman,	*Milton, Queens Co., N. S.*,	33 U. H.
William Bowers Winn,	*New Bedford, Mass.*,	37 H. C.
Isaac Oscar Winslow,	*St. Albans, Me.*,	40 H. C.
Augustus Wood,	*New Bedford, Mass.*,	28 H. C.

JUNIOR CLASS.

NAME.	RESIDENCE.	ROOM.
Edward Stowe Adams.	*Fall River, Mass.,*	21 H. C.
Henry Burr Anthony,	*Providence,*	45 Manton Av.
Edward Ernest Atkinson,	*Boston, Mass.,*	35 H. C.
George Folger Barnard,	*Lynn, Mass.,*	51 U. H.
Charles Pattison Bennett,	*Philadelphia, Pa.,*	47 H. C.
Charles Sumner Boyer,	*Philadelphia, Pa.,*	47 H. C.
William Potter Buffum.	*Newport,*	Cooke and Waterman Sts.
Newton Sherwood Calhoun,	*Bethlehem, Conn.,*	52 U. H.
Alva Edwin Carpenter,	*Providence,*	34 W. Exchange St.
George Francis Comstock,	*Woonsocket,*	44 U. H.
Wallace Peter Dick,	*So. Woodstock, Conn.,*	57 U. H.
Charles Henry James Douglas,	*Providence,*	97 Benevolent St.
James Hervey Earle,	*Fiskeville,*	8 H. C.
Gorham Easterbrook,	*Boston, Mass.,*	10 H. C.
Stephen Ostrom Edwards,	*Glen, N. Y.,*	19 U. H.
Frederick William Elliott,	*Meredith, N. H.,*	48 H. C.
Edward Francis Ely.	*Providence,*	Waterman & Prospect Sts.
Frank Alexander Farnum,	*Providence,*	34 Aborn St.
Edward Pike Greene,	*Providence,*	15 Parade St.
John Jesse Greene,	*Hope Valley,*	15 H. C.
Gabriel Nelson Grisham,	*Nashville, Tenn.,*	Front & East Sts.
Arthur Hudson Harrington,	*Worcester, Mass.,*	245 Waterman St.
Charles William Hastings,	*Suffield, Conn.,*	19 U. H.
Stephen Goodwin Hastings,	*West Suffield, Conn.,*	52 U. H.
David William Hersey,	*Foxboro', Mass.,*	43 H. C.

NAME.	RESIDENCE.	ROOM.
Hubert Nelson Howe,	*Westminster, Mass.*,	59 Sheldon St.
*Henry Calvin Hubbard,	*West Killingly, Conn.*,	49 H. C.
Truman Johnson,	*Providence*,	49 H. C.
Henry Webster Kegwin,	*Jewett City, Conn.*,	46 U. H.
Lyman Winslow King,	*Newton Centre, Mass.*,	31 H. C.
Charles Henry Kinne,	*Norwich, Conn.*,	325 Friendship St.
George Ide Malcom,	*Newport*,	42 U. H.
Edward Sprague Marsh,	*Brandon, Vt.*,	29 H. C.
Walter Lee Munro,	*Bristol*,	23 H. C.
Frederick Eugene Partington,	*Portland, Me.*,	61 Congdon St.
William Cooper Readio,	*Haverstraw, N. Y.*,	Pawtucket.
Samuel Augustus Severance,	*Boston, Mass.*,	11 H. C.
Samuel Randall Simmons, Jr.,	*Providence*,	34 Benevolent St.
Joel Mann Spencer, Jr.,	*Washington*,	23 H. C.
Louis Rhodes Southworth,	*So. Woodstock, Conn.*,	57 U. H.
Howard York Stillman,	*Westerly*,	20 U. H.
William Richmond Tillinghast,	*Providence*,	108 Angell St.
Charles James Tucker,	*Providence*,	47 Hudson St.
Francis Hubbard Viets,	*East Granby, Conn.*,	51 U. H.
Clarence Haven Waldo,	*Brookline, Mass.*,	55 Waterman St.
Stephen Albro Welch,	*Providence*,	23 Carpenter St.
James Lee Wells,	*Hopkinton*,	8 H. C.
Judson Irving Wood,	*Millbury, Mass.*,	23 U. H.

Select Course.

David Leonard Barnes,	*Watchemoket*,	Watchemoket.
Edgar Thomas Farrill,	*Providence*,	49 H. C.

* Deceased, November 11, 1877.

SOPHOMORE CLASS.

NAME.	RESIDENCE.	ROOM.
Augustus Levi Abbott,	*La Crosse, Wis.*,	34 H. C.
Charles Robert Adams,	*Holyoke, Mass.*,	13 H. C.
Walter Foster Angell,	*Atlanta, Ill.*,	33 Benefit St.
Wilberforce Ewing Archibald,	*Manchester, Vt.*,	24 U. H.
James Austin, Jr.,	*Woonsocket*,	33 H. C.
George Taylor Baker,	*Chelsea, Mass.*,	7 George St.
Edmund Neville Bennett,	*Taunton, Mass.*,	272 Benefit St.
John Taggard Blodgett,	*Refugio, Texas*,	141 Williams St.
Henry Jackson Boyce,	*Providence*,	122 Knight St.
Gibbs Braislin,	*Burlington, N. J.*,	18 H. C.
Charles Edwin Burdette,	*Peoria, Ill.*,	3 H. C.
John Nathan Butman,	*Providence*,	138 Thurber's Ave.
Zechariah Chafee, Jr.,	*Providence*,	5 Cooke St.
Prescott Orloff Clarke,	*Providence*,	66 Keene St.
John Loring Crane,	*East Braintree, Mass.*,	52 Benefit St.
James Wallace Darrow,	*East Chatham, N. Y.*,	13 H. C.
Silas Walker Deane,	*Middleboro', Mass.*,	35 H. C.
Walter Edward Delabarre,	*Blackstone, Mass.*,	44 H. C.
Henry Dunster, Jr.,	*Providence*,	53 Vernon St.
Samuel Slater Durfee,	*Providence*,	49 Benefit St.
Richard Bartlett Esten,	*S. Attleboro', Mass.*,	38 H. C.
William Herbert Perry Faunce,	*Lynn, Mass.*,	12 H. C.
Walter Mason Field,	*Providence*,	Reservoir Ave.
Frank Eustace Fitz,	*Chelsea, Mass.*,	26 H. C.

NAME.	RESIDENCE.	ROOM.
George Stephen Goodspeed,	*Chicago, Ill.*,	82 Meeting St.
Augustus Arabert Greene,	*Providence*,	31 Greenwich St.
Fred Mason Hammett,	*Newport*,	79 Williams St.
Henry Gano Hardy,	*Malden, Mass.*,	12 H. C.
Arthur Whitney Howe,	*Philadelphia, Pa.*,	10 Hopkins St.
Charles William Jencks, Jr.,	*Providence*,	16 Elmwood Ave.
Herbert Ide Keen,	*Philadelphia, Pa.*,	41 U. H.
John Power Knowles, Jr.,	*Providence*,	9 Charles Field St.
Isaac Albert Lamson,	*Hamilton, Mass.*,	24 U. H.
Henry Douglas Lane,	*St Albans, Me.*,	27 Bowen St.
William Hoyle Lane,	*Central Falls*,	(90 Cross St.)
James Granger Lincoln,	*Providence*,	227 Benefit St.
Philip Augustus Mathewson,	*Providence*,	261 Benefit St.
Walter Sydney Meader,	*Gonic, N. H.*,	48 U. H.
Donald Littlefield Morrill,	*Auburn, Me.*,	82 Meeting St.
Samuel Hanson Ordway,	*Providence*,	272 Benefit St.
John Holden Ormsbee,	*Providence*,	294 Benefit St.
Edgar Perry,	*Rehoboth, Mass.*,	45 U. H.
James Tobey Pyke,	*Providence*,	250 Angell St.
William Francis Richardson,	*Andover, Mass.*,	116 Congdon St.
J. Lee Richmond,	*Geneva, Ohio*,	38 U. H.
Owen Bishop Rogers,	*Providence*,	Redwing St.
David Foster Slade,	*Somerset, Mass.*,	6 H. C.
Edward Albert Smiley,	*Providence*,	53 U. H.
James Smith,	*New Bedford, Mass.*,	33 H. C.
Samuel Watson Smith, Jr.,	*Cincinnati, Ohio*,	31 Benevolent St.
Wesley Lorenzo Smith,	*Malden, Mass.*,	18 H. C.
Eugene Leslie Smyth,	*Northwood, N. H.*,	31 Benevolent St.
James Clay Starkweather,	*Pawtucket*,	17 H. C.
Fred Clay Tenney,	*Orange, Mass.*,	44 U. H.
Benjamin Franklin Thurston,	*Newport*,	79 Williams St.
Frank Luscombe Tinkham,	*Taunton, Mass.*,	19 Angell St.
William Ramsay Trotter,	*Bristol*,	1 H. C.
Frederick Johnson Clegg Walton,	*Lynn, Mass.*	27 Bowen St.
Paul Waterman,	*Providence*,	72 Meeting St.
William Henry Winslow,	*Larone, Maine*,	48 U. H.

NAME.	RESIDENCE.	ROOM.
Select Course.		
Benjamin Buffum, Jr.,	*Providence*,	Cooke & Waterman Sts.
Oliver Perry Clarke,	*Providence*,	45 U. H.
William Hale, Jr.,	*So. Berwick, Me.*,	52 U. H.
Sidney Putnam,	*Providence*,	68 George St.
James Wilson Urquhart,	*Pawtucket*,	Pawtucket.

FRESHMAN CLASS.

NAME.	RESIDENCE.	ROOM.
Charles Francis Adams,	*Newburgh, N. Y.,*	14 H. C.
William Cotter Baker,	*Wickford,*	34 U. H.
Benjamin Barker, Jr.,	*Tiverton,*	270 Benefit St.
George Fremont Bean,	*Warner, N. H.,*	38 Angell St.
George Bickford Brigham,	*Westborough, Mass.,*	31 U. H.
Morgan Brooks,	*Boston, Mass.,*	40 H. C.
Percy Shelley Burbank,	*Providence,*	148 Congdon St.
Friend Preston Carpenter,	*Providence,*	Daboll St.
Walter Orestes Cartwright,	*Wakefield, Mass.,*	14 H. C.
William Sheafe Chase,	*Providence,*	96 Mathewson St.
Charles Walter Connell,	*Fall River, Mass.,*	61 Congdon St.
Howard Potter Cornell,	*Providence,*	165 Angell St.
Samuel Winslow Culver,	*Providence,*	417 Pine St.
Anthony Brown Day,	*Providence,*	284 Westminster St.
John Cottrell Dyer,	*Providence,*	329 Friendship St.
Frank Herbert Gifford,	*New Bedford, Mass.,*	45 George St.
Paul Coffin Gifford,	*Olneyville,*	45 U. H.
John Russell Gladding,	*Providence,*	43 Chestnut St.
Frederic Hayes,	*Providence,*	344 Benefit St.
Frederic Rowland Hazard,	*Peacedale,*	45 Williams St.
Alfred Howland Hood,	*Somerset, Mass.,*	31 U. H.
Samuel Lafayette Irons,	*Harmony,*	46 U. H.
Howard Clifton Jewett,	*Haverhill, Mass.,*	58 U. H.
Jacob Kettner,	*Providence,*	Rear of 19 Fulton St.

NAME.	RESIDENCE.	ROOM.
Edward Randall Knowles,	*Providence*,	151 Benefit St.
William Coffin Ladd,	*Brooklyn, N. Y.*,	261 Benefit St.
James Albert Lewis,	*Chicago, Ill.*,	34 H. C.
Ellwood Gassett Macomber,	*Portsmouth*,	261 Benefit St.
John Murray Marshall,	*Worcester, Mass.*,	35 H. C.
Joseph Henry Molloy,	*Providence*,	232 Smith St.
Charles Carney Mumford,	*Providence*,	37 Ring St.
William Llewellyn Phillips,	*Nashville, Tenn.*,	46 H. C.
Wilber Taylor Rice,	*So. Ashfield, Mass.*,	44 U. H.
Henry Brayton Rose,	*Providence*,	22 U. H.
Horace Ward Sheldon,	*Yankton, Dak.*,	Pawtucket.
William Baird Silvey,	*Richmond, Va.*,	10 Congdon St,
James Davis Simmons,	*Providence*,	34 Benevolent St.
William Davol Stickney,	*Fall River, Mass.*,	6 H. C.
Willis Hermann Streeter,	*Attleboro', Mass.*,	23 H. C.
Edward Williams Taft,	*Pawtuxet*,	Pawtuxet.
John Alvah Taylor,	*Franklin Falls, N. H.*,	38 Angell St.
Edwin Lajette Thurston,	*Providence*,	248 Wickenden St.
Walter James Town,	*Providence*,	436 Pine St.
Arthur Middleton Webster,	*Providence*,	3 Walnut St.
Daniel Sumner Willson,	*Rochdale, Mass.*,	46 H. C.

Select Course.

Arthur Bateman Corthell,	*Bristol*,	Bristol.
Henry Albert Cranston,	*Providence*,	395 Benefit St.
Edward Savage Crocker,	*Fitchburg, Mass.*,	22 U. H.
William Patrick Dempsey,	*Lewiston, Me.*,	Pawtucket.
Herbert Smith Millikin,	*New Shoreham*,	56 U. H.
William George Robinson,	*Providence*,	390 Friendship St.

ABBREVIATIONS.

U. H.,	University Hall.
H. C.,	Hope College.

SUMMARY.

Seniors,	71
Juniors.	50
Sophomores,	65
Freshmen,	51
Total,	237

TIME AND CONDITIONS OF ADMISSION.

The regular examination for admission to the Freshman Class will take place on Thursday, Friday and Saturday of Commencement week, June 20, 21 and 22, 1878, beginning at 8 o'clock, A. M., on Thursday. The candidates will assemble in No. 12, University Hall; and *they must be in attendance during the three days.*

There will be a second examination on Tuesday and Wednesday, September 17 and 18, 1878, beginning at 8 o'clock, A. M. Applicants must be in attendance both days.

Candidates for Advanced Standing will be subjected to a general examination in the studies already pursued by the class which they propose to enter.

No student can be admitted as a candidate for matriculation, unless he bring suitable testimonials of good moral character; and if he come from another college, or an academy, he must also present a certificate of good standing in the institution which he has left, and of regular dismission from it.

FOR THE COURSE FOR THE DEGREE OF BACHELOR OF ARTS.

Candidates for admission to the Freshman Class are examined in the following subjects; but real equivalents will be received for any of the Latin or Greek works mentioned:

(Teachers in preparatory schools are requested not to employ in their classes the works assigned for use in College.)

I. Greek. 1. Greek Grammar, (Hadley's is preferred.) 2. The Syntax and Greek Selections in Harkness's "First Greek Book," or an equivalent from any other Greek Reader. 3. The whole of Xenophon's Anabasis or *five* books of the Anabasis, and *two* books of Homer; the Odyssey is preferred. 4. The first *twenty* exercises of Arnold's Greek Prose Composition, or the first *twenty-five* exercises of Jones's Greek Prose Composition.

II. Latin. 5. Latin Grammar, (Harkness's Grammar is preferred.) 6. *Five* books of Caesar's Commentaries, or *three* books of Caesar and the *Catiline* of Sallust. 7. The *first six* books of Virgil's Aeneid, and thirty-five hundred lines of Ovid; as an equivalent for Ovid, either the *last six* books of the Aeneid, or the Bucolics and Georgics. 8. Seven Orations of Cicero, including the Manilian law. 9. Parts I and II of Harkness's Latin Composition.

III. Mathematics. 10. Arithmetic, including the Metric system of weights and measures. 11. Algebra in Equations of the First and of the Second Degree. 12. Plane Geometry.

IV. English. 13. English Grammar, (Greene's is preferred.) 14. The Analysis and Prosody of the First Act of Julius Caesar, in Craik's "English of Shakspeare." 15. Exercises in English Composition.

V. French. 16. Otto's French Grammar, Part I, including *the Reading lessons.*

In all these branches, candidates will be examined both orally and by writing.

PRELIMINARY EXAMINATIONS.

In certain of the Preparatory studies, candidates may be examined one year before the time at which they intend to apply for admission to the Freshman Class. This examination will be held in June only. The subjects for this earlier examination will be the following:

(1.) Greek Grammar.
(2.) The Syntax and Greek selections in Harkness's "First Greek Book," or an equivalent from any other Greek Reader.
(3.) Three books of Xenophon's Anabasis.
(4.) Latin Grammar.
(5.) Caesar, and either Ovid or Cicero; or Caesar, and Six books of the Aeneid.
(6.) Arithmetic.

FOR THE COURSES FOR THE DEGREE OF BACHELOR OF PHILOSOPHY.

There are at present three parallel courses of instruction of Candidates for the degree of Bachelor of Philosophy, each course extending through a period of four years. Two of these courses include classical studies—the third omits them, and substitutes a larger amount of scientific studies.

Candidates for admission to a course including *Greek*, are examined in all the Greek subjects specified on page 25. They are also examined in all the subjects in the list below, (p. 27.)

Candidates for admission to a course including *Latin*, are examined in all the Latin subjects specified on page 25. They are

also examined in all the subjects (except the Latin) in the list below, (p. 27.)

Candidates for admission to the course *omitting* classical studies, are examined in all the following subjects:

I. Latin.

1. *Five* books of Caesar, or its equivalent in Cicero or in Virgil.

II. Mathematics.

2. Arithmetic, including the Metric system of Weights and Measures. 3. Algebra in Equations of the First and of the Second Degree. 4. Plane Geometry.

III. English.

5. English Grammar, (Greene's is preferred). 6. The Analysis and Prosody of the First Act of Julius Caesar, in Craik's "English of Shakspeare." 7. Exercises in English Composition.

IV. French.

8. Otto's French Grammar, Part I, including *The reading lessons.*

In all these branches, candidates will be examined both orally and by writing.

SELECT COURSES.

Students who wish to pursue a Select Course, without entering as candidates for a degree, must be examined in such subjects as are preliminary to the studies that they desire to pursue in College.

SPECIMENS OF EXAMINATION PAPERS

FOR ADMISSION, IN 1877.

WRITTEN EXAMINATION IN LATIN.

I. Translate the following:

1. Quum ab his quaereret, quae civitates quantaeque in armis essent et quid in bello possent, sic reperiebat: Plerosque Belgas esse ortos ab Germanis, Rhenumque antiquitus transductos propter loci fertilitatem ibi consedisse, Gallosque qui ea loca incolerent, expulisse, solosque esse, qui patrum memoria, omni Gallia vexata, Teutones Cimbrosque intra fines suos ingredi prohibuerint.

2. Ad quarum initium silvarum quum Caesar pervenisset castraque munire instituisset, neque hostis interim visus esset, dispersis in opere nostris, subito ex omnibus partibus silvarum evolaverunt et in nostros impetum fecerunt.

II. Explain mood of *quaereret*, *essent*, *consedisse*, *prohibuerint*. Tense of *expulisse*, *prohibuerint*. Syntax of *quid*, *Rhenum*, *antiquitus*, *memoria*, *munire*. Principal parts of *quaereret*, *reperiebat*, *consedisse*, *expulisse*, *evolaverunt*. To whom does *suos (ingredi)* refer? What is the general rule for *sui* and *suus?*

Why is this work of Caesar called "Commentarii"? What is the full name of Caesar? Of this work? During what years was Caesar occupied with the conquest of Gaul? Where did the Belgae live?

III. Translate the following:

Nunc, Patres conscripti, ego mea video quid intersit. Si eritis secuti sententiam C. Caesaris, quoniam hanc is in republica

viam, quae popularis habetur, secutus est, fortasse minus erunt hoc auctore et cognitore hujusce sententiae mihi populares impetus pertimescendi: sin illam alteram, nescio, an amplius mihi negotii contrahatur. Sed tamen meorum periculorum rationes utilitas reipublicae vincat. Habemus enim a C. Caesare, sicut ipsius dignitas et majorum ejus amplitudo postulabat, sententiam tamquam obsidem perpetuae in rem publicam voluntatis. Intellectum est, quid intersit inter levitatem concionatorum et animum vere popularem, saluti populi consulentem.

IV. Syntax of *mea*, *auctore*, *mihi*, *illam alteram*, *negotii*, *intellectum est*, *saluti*. What cases may be used with *consulere*, and with what meaning? What does the epithet *conscripti* mean? What are the two significations of the word *popularis* in this passage? With what was the word generally synonymous at this time?

What was the occasion of the orations against Catiline? In what year were they delivered? What were the two plans *(sententiae)* to which reference is made in this passage?

V. Translate the following:

1. Provehimur pelago vicina Ceraunia juxta,
   Unde iter Italiam cursusque brevissimus undis.
   Sol ruit interea et montes umbrantur opaci.
   Sternimur optatae gremio telluris ad undam
   Sortiti remos passimque in litore sicco
   Corpora curamus; fessos sopor irrigat artus.
2. Deiphobus contra: Ne saevi, magna sacerdos:
   Discedam, explebo numerum reddarque tenebris.
   I decus, i, nostrum; melioribus utere fatis.
   Tantum effatus et in verbo vestigia torquet.

VI. In 1. Syntax of *Italiam*, *undis*, *gremio*, *remos*, *corpora*, *artus*. Gender of *pelago*, *iter*, *litore*. In 2. Syntax of

Deiphobus, *fatis*, *effatus*. Genitive Singular of *sacerdos*, *decus*. Principal parts of *saevi*, *effatus*, *torquet*.

Scan and prove the last line.

What are the different works of Virgil and the subjects treated by him? When did he flourish? When Cicero?

VII. Translate into Latin:

(1.) Who is there who doubts that Cicero hesitated to put those men to death? (2.) Let them ask whether he ought to have crossed the Rhine. (3.) If the soldiers had come into the camp, he would have driven out the enemy. (4.) When he was at Rome, ten years ago, he told me what he had already accomplished for his native land. (5.) It is a characteristic of all the best men to love their country and to minister (*servire*) to its true glory. (6.) He said that he had done this because he was following the counsels of the senators, who had consulted for the public safety.

VIII. Write the Accusative and Ablative Singular of *tussis*, of *turris*, of *civis*. In what do the stems of these words end? Write Genitive Singular of *senex*, *auceps*, *crus*. Explain the difference in the form of the stem as seen in the Nominative and Genitive Singular of *flos*. Compare *munificus*, *dives*, *nequam*. Where are these words found: *ĭs*, *īs*, *ĕs*, *ēs*, *coepi*, *cepi*, *sepi*, *capi*, *cape*, *lătŭs*, *lātŭs?*

What is the difference between the interrogatives *quis* and *qui* in meaning? By what two cases may *similis* be followed, and with what difference of meaning?

Decline in singular, *Horatius*, *domus*, *iste*, *ipse*; in plural, *filia*, *spes*, *locus*, *epulum*, *nubes*.

WRITTEN EXAMINATION IN GREEK.

I.—*Ὁ δὲ καταφεύγει εἰς τὸ ἑαυτοῦ στράτευμα, καὶ εὐθὺς παραγγέλλει εἰς τὰ ὅπλα· καὶ τοὺς μὲν ὁπλίτας αὐτοῦ ἐκέλευσε μεῖναι τὰς ἀσπίδας πρὸς τὰ γόνατα θέντας, αὐτὸς δὲ λαβὼν τοὺς Θρᾷκας καὶ τοὺς ἱππεῖς, οἳ ἦσαν αὐτῷ ἐν τῷ στρατεύματι πλείους ἢ τετταράκοντα, τούτων δὲ οἱ πλεῖστοι Θρᾷκες, ἤλαυνεν ἐπὶ τοὺς Μένωνος, ὥστ' ἐκείνους ἐκπεπλῆχθαι καὶ αὐτὸν Μένωνα, καὶ τρέχειν ἐπὶ τὰ ὅπλα· οἱ δὲ καὶ ἔστασαν ἀποροῦντες τῷ πράγματι.*

II.—*Ἐν δὲ τούτῳ ἦκε Τισσαφέρνης ἔχων τὴν ἑαυτοῦ δύναμιν ὡς εἰς οἶκον ἀπιὼν καὶ Ὀρόντας τὴν ἑαυτοῦ δύναμιν· ἦγε δὲ καὶ τὴν θυγατέρα τὴν βασιλέως ἐπὶ γάμῳ. ἐντεῦθεν δὲ ἤδη Τισσαφέρνους ἡγουμένου καὶ ἀγορὰν παρέχοντος ἐπορεύοντο· ἐπορεύετο δὲ καὶ Ἀριαῖος τὸ Κύρου βαρβαρικὸν ἔχων στράτευμα ἅμα Τισσαφέρνει καὶ Ὀρόντᾳ καὶ ξυνεστρατοπεδεύετο σὺν ἐκείνοις· οἱ δὲ Ἕλληνες ὑφορῶντες τούτους αὐτοὶ ἐφ' ἑαυτῶν ἐχώρουν ἡγεμόνας ἔχοντες.*

III.—*Τὴν μὲν τῶν βαρβάρων ἐπιορκίαν τε καὶ ἀπιστίαν λέγει μὲν Κλεάνωρ, ἐπίστασθε δὲ καὶ ὑμεῖς, οἶμαι. εἰ μὲν οὖν βουλευόμεθα πάλιν αὐτοῖς διὰ φιλίας ἰέναι, ἀνάγκη ἡμᾶς πολλὴν ἀθυμίαν ἔχειν, ὁρῶντας καὶ τοὺς στρατηγούς, οἳ διὰ πίστεως αὐτοῖς ἑαυτοὺς ἐνεχείρισαν, οἷα πεπόνθασιν· εἰ μέντοι διανοούμεθα σὺν τοῖς ὅπλοις ὧν τε πεποιήκασι δίκην ἐπιθεῖναι αὐτοῖς καὶ τὸ λοιπὸν διὰ παντὸς πολέμου αὐτοῖς ἰέναι, σὺν τοῖς θεοῖς πολλαὶ ἡμῖν καὶ καλαὶ ἐλπίδες εἰσὶ σωτηρίας.*

IV.—Give the construction of the following words: In extract II., *Ὀρόντας, Τισσαφέρνους, Ὀρόντᾳ*, and in III., *ἔχειν, ὁρῶντας, οἷα, ὧν.* Give the synopsis of *ἰέναι.*

V.—Decline *νοῦς, γένος, πόλις, ἡδύς.*

VI.—Give the synopsis of *λύω* in the Aorists and inflect the Imperative of the Aorist middle and passive.

VII.—Translate into Greek with the Accents:

1. Let us go away, dear brother, that we may not see the battle. 2. When those who manage the affairs of the state have managed them well, they shall also manage mine. 3. They told me that if this was so, they should go away at once.

VIII.—*Ἔστι δὲ ἡ χώρα ἡ ἐκ Λακεδαίμονος εἰς Ὀλυμπίαν πορεύονται ὡς εἴκοσι στάδιοι ἀπὸ τοῦ ἐν Ὀλυμπίᾳ Διὸς ἱεροῦ. ἔνι δ' ἐν τῷ ἱερῷ χώρῳ καὶ ἄλση καὶ ὄρη δένδρων μεστά, ἱκανὰ καὶ σῦς καὶ αἶγας καὶ βοῦς τρέφειν καὶ ἵππους, ὥστε καὶ τὰ τῶν εἰς τὴν ἑορτὴν ἰόντων ὑποζύγια εὐωχεῖσθαι. περὶ δὲ αὐτὸν τὸν ναὸν ἄλσος ἡμέρων δένδρων ἐφυτεύθη ὅσα ἐστὶ τρωκτὰ ὡραῖα. ὁ δὲ ναὸς ὡς μικρὸς μεγάλῳ τῷ ἐν Ἐφέσῳ εἴκασται, καὶ τὸ ξόανον ἔοικεν ὡς κυπαριττινον χρυσῷ ὄντι τῷ ἐν Ἐφέσῳ.*

IX.—Give the Principal Parts of *αἱρέω*, *ἀκούω* *χέω* and *στρέφω* and inflect Imperfect Middle of *φιλέω*.

X.—*Ἀλλ' εἴποιτε ἄν, ὅτι ἔξεστι καὶ τὰ ὑμέτερα ἔχοντα παρὰ Σεύθου τεχνάζειν. οὐκοῦν δῆλον τοῦτό γε, ὅτι, εἴπερ ἐμοὶ ἐτέλει τι Σεύθης, οὐχ οὕτως ἐτέλει δήπου, ὡς, ὧν τε ἐμοὶ δοίη στέροιτο καὶ ἄλλα ὑμῖν ἀποτίσειεν, ἀλλ' οἶμαι, εἰ ἐδίδου, ἐπὶ τούτῳ ἂν ἐδίδου, ὅπως ἐμοὶ δοὺς με ων μὴ ἀποδοίη ὑμῖν τὸ πλεῖον.*

OR THE FOLLOWING:

Ἓς δ' ἦλθον μνηστῆρες ἀγήνορες· οἱ μὲν ἔπειτα
ἑξείης ἕζοντο κατὰ κλισμούς τε θρόνους τε.
τοῖσι δὲ κήρυκες μὲν ὕδωρ ἐπὶ χεῖρας ἔχευαν·
σῖτον δὲ δμωαὶ παρενήνεον ἐν κανέοισιν·
κοῦροι δὲ κρητῆρας ἐπεστέψαντο ποτοῖο.
οἱ δ' ἐπ' ὀνείαθ' ἑτοῖμα προκείμενα χεῖρας ἴαλλον.
αὐτὰρ ἐπεὶ πόσιος καὶ ἐδητύος ἐξ ἔρον ἕντο
μνηστῆρες, τοῖσιν μὲν ἐνὶ φρεσὶν ἄλλα μεμήλει,
μολπή τ' ὀρχηστύς τε· τὰ γάρ τ' ἀναθήματα δαιτός.

WRITTEN EXAMINATION IN MATHEMATICS.

Arithmetic.

1. The sum of $\frac{\frac{3}{5} \text{ of } \frac{5}{6}}{.5}$ and $\frac{\frac{4}{7} \text{ of } \frac{7}{12}}{\frac{4}{9} \text{ of } 2.25}$ is equal to how many times their difference?

2. When gold is at a premium of $59\frac{1}{2}$ per cent., how many dollars in gold and how much fractional currency ought a broker to pay for a ten dollar United States note?

3. Bought 2,345 bushels of wheat at \$1.20 per bushel and immediately sold it at \$1.30, receiving in payment a note of 6 months, which I had discounted at a bank at 7 per cent. How much did I gain?

4. If I sell $\frac{1}{4}$ of my goods at an advance of 25 per cent., $\frac{3}{10}$ at a loss of 8 per cent., $\frac{1}{20}$ at a profit of 30 per cent., and $\frac{1}{5}$ at a discount of 20 per cent., for what per cent. of the cost must I sell the remainder in order to lose 5 per cent. on the whole?

5. How many steres in a wall 24 metres long, 8.5 metres high, and 52 centimetres thick, and what would be the cost of building it at \$4.25 a stere?

Algebra.

1. Combine $\frac{1}{x^2-y^2} + \frac{1}{(x+y)^2} - \frac{1}{(x-y)^2}$.

2. Free $\frac{1-a^{-2}-y^2}{1-x^{-3}y^{-2}+x^{-2}}$ from negative exponents.

3. Given $y + \frac{5x+2y}{6} - \frac{3y-12+8x}{5} = 4 - \frac{15+2x-4y}{3}$, and $\frac{7x+13-5y}{4} + x = 2y - \frac{3x+2y-16}{3}$, to find x and y.

4. A man bought s acres of land for m dollars. For a part he paid a dollars per acre, and for the rest b dollars per acre. How many acres in each part?

5. Solve $\frac{2x-4}{3}+\frac{6}{x-7}=\frac{8-4x}{5}-\frac{7-3x}{3x-21}$.

Geometry.

1. State the value of the sum of the angles in a quadrilateral and prove the statement.

2. Prove that in equal circles, arcs are to each other as the angles at the centres which they subtend.

3. If one circumference be described on the radius of another as a diameter, prove that any straight line extending from their point of contact to the outer circumference, is bisected by the inner circumference.

4. When are two oblique angled triangles similar? State and prove all the different cases.

5. State the volume of the frustum of a triangular pyramid and prove the statement.

WRITTEN EXAMINATION IN ENGLISH.

Flavius. Go, go, good countrymen, and for this fault, (1.)
Assemble all the poor men of your sort; (2.)
Draw them to Tiber banks, and weep your tears (3.)
Into the channel, till the lowest stream (4.)
Do kiss the most exalted shores of all. (5.)
See whe'r their basest metal be not moved (6.)
They vanish tongue-tied in their guiltiness. (7.)

Go you down that way toward the Capitol. (8.)
This way will I. Disrobe the images, (9.)
If you do find them decked with ceremonies. (10.)
Marullus. May we do so? (11.)
You know it is the feast of Lupercal. (12.)

I. Analysis. To what class does the first sentence belong? What are its subordinate clauses?

What is the construction of *Tiber*, (3), *tongue-tied*, (7), *way*, (8) *will*, (9).

What peculiarity is there in the expression *weep your tears* (3), *do kiss*, (5).

What is the etymological meaning of *decked*, (10), and what meaning does it have here?

Explain the allusion in *disrobe the images*, *decked with ceremonies* and the *feast of Lupercal.*

II. Prosody. Scan lines (8) and (9). Give an account of the metre and its peculiarities.

III. Write a brief Composition upon either of the following themes:

The Influence of Associates on Character.
The Danger of Procrastination.

WRITTEN EXAMINATION IN FRENCH.

I. Give with definite article, the singular aud plural of *house*, *garden*, *book*, *meat*, *dog*, *class*, *palace.*

II. Give masculine and feminine singular of the adjectives, *great*, *small*, *idle*, *studious.*

III. Give masculine singular positive, comparative and superlative of *rich*, *poor*, *small*, *great*, *good*, *bad*.

IV. Conjugate *affirmatively with pronoun*.

1. Present indicative of *être*.
2. Imperfect indicative of *avoir*.

V. Translate into French with accents:

1. Charles was a good boy.
2. The baker has a round table.
3. France is smaller than England.
4. George has a beautiful gold watch.
5. Have you some good cheese?

VI. Give with definite article, the singular and plural of *head*, *ear*, *nose*, *knee*, *knife*, *horse*, *fire*.

VII. Give masculine and feminine singular of the adjectives, *high*, *low*, *young*, *old*.

VIII. Give first five cardinal and ordinal numbers.

IX. Conjugate *interrogatively* with *pronoun*:—

1. Future indicative of *être*.
2. Future indicative of *aimer*.

X. Translate into French with accents:

1. You have no coffee, have you?
2. We have some good tea, but no milk.
3. Are you the French lady? I am.
4. The mother and daughter of your friend are not at home.
5. Is Paul a physician?

XI. Give with demonstrative pronouns, singular and plural of *stocking*, *penny*, *water*, *potato*, *railroad*, *gentleman*.

XII. Give masculine and feminine singular of the adjectives, *new*, *beautiful*, *white*, *black*.

XIII. Give with definite article, the names of the seasons and days of the week.

XIV. Conjugate *negatively* with *pronoun*:—

1. Present Subjunctive of *avoir*.
2. Imperfect Subjunctive of *vendre*.

XV. Translate into French with accents:

1. Are you very hungry?
2. No, but my feet are cold.
3. We have bought as many books as pens.
4. Robert is speaking to the children of their playthings.
5. Nobody has any longer anything good.

COURSES OF INSTRUCTION.

FIRST: FOR THE DEGREE OF BACHELOR OF ARTS.

FRESHMAN CLASS.

First Half-Year.

1. *Greek*, (*a*) Felton's Greek Historians.—(*b*) Arnold's Greek Prose Composition. — (*c*) Smith's History of Greece. *Five hours a week.*

2. *Latin*. (*a*) Livy (Lincoln's Selections) Books I. II. XXI.— (*b*) Harkness's Latin Composition, Part III.— (*c*) History of Rome. *Five hours a week.*

3. *Mathematics.* Algebra, from Quadratic Equations. *Five hours a week.*

4. *French.* (*a*) Otto's Grammar, Part II. (*b*) *Napoléon* par Alexandre Dumas. *Two hours a week.*

Second Half-Year.

1. *Greek.* (*a*) Homer's Iliad.—(*b*) Arnold's Greek Prose Composition completed. *Five hours a week.*

2. *Latin.* (*a*) Cicero de Senectute.—(*b*) De Amicitia.—(*c*) Exercises in Latin Composition. *Five hours a week.*

3. *Mathematics.* (*a*) Olney's Geometry.—(*b*) Olney's Advanced Course in Geometry, Solid and Spherical, (*c*) Plane and Spherical Trigonometry. *Five hours a week.*

4. *French.* (*a*) Racine's *Athalie* (*b*) French Composition (*c*) French Conversation. *Two hours a week.*

SOPHOMORE CLASS.

First Half-Year.

1. *Greek.* (*a*) Demosthenes.—(*b*) Lectures. *Three hours a week.*

2. *Latin.* (*a*) Horace, (Lincoln's Edition).—(b) Exercises in Latin Composition. *Two hours a week.*

3. *Mathematics.* (*a*) Olney's General Geometry and Calculus.—(*b*) Lectures on Surveying, Navigation and Spherical Astronomy. *Five hours a week.*

4. *French.* (*a*) Corneille's *Horace.*—(*b*) Manuel D'Histoire de la Littérature Française par Marcillac.—(*c*) French Composition.—(*d*) French Conversation. *Three hours a week.*

5. *Rhetoric.* (*a*) Lectures, *two hours a week.* Text-Book, Hepburn's Manual of Rhetoric.—(*b*) Exercises in Elocution, *one hour a week.* Murdoch and Russell's Vocal Culture.—(*c*) Essays. Principal books of Reference, Campbell's Philosophy of Rhetoric, Whately's Elements of Rhetoric, Kames' Elements of Criticism, Angus's Hand-Book of the English Tongue, and Channing's Lectures on Rhetoric and Oratory.

Second Half-Year.

1. *Greek.* (*a*) Sophocles.—(*b*) Lectures. *Two hours a week.*

2. *Latin.* (*a*) Tacitus.—(*b*) Exercises in Latin Composition. *Three hours a week.*

3. *Mechanics.* (*a*) Peck's Mechanics. *Five hours a week.*

4. *Rhetoric.* (*a*) Lectures, *Two hours a week.* Text-Book, Hepburn's Manual of Rhetoric.—(*b*) Exercise in Elocution with Declamations, *One hour a week.* Text-Book, Murdoch and Russell's Vocal Culture. Principal books of reference in Elocution, McIlvaine's Elocution, Hullah's Speaking Voice, Bacon's Manual of Gesture.—(*c*) Essays.

Also one of the following elective studies:

French.—(*a*) Comedies of Molière.—(*b*) Lectures. *Three hours a week.*

or

German. (*a*) Whitney's Grammar.—(*b*) Ahn's Exercises.—(*c*) Whitney's Reader. *Three hours a week.*

JUNIOR CLASS.

First Half-Year.

1. *Rhetoric.* (*a*) Keane's Hand-Book of the English Language. Lectures on the History of English Literature, with Readings from authors. *Three hours a week.*—(*b*) Exercises in Elocution.—(*c*) Essays and Speeches. *Saturdays.* Principal authors referred to: (1) In Language, Müller, Whitney, Farrar, Marsh and Craik. (2) In Literature, Morley, Taine, Arnold, Angus, Bascom and the "Clarendon Press" Series of English Classics.

2. *Astronomy.* Loomis's Astronomy with Lectures. *Three hours a week.*

3. *Chemistry.* Lectures. The lectures are illustrated by experiments and colored charts, and black-board exercises. Books of reference: Fownes's Chemistry, Barker's Chemistry, Roscoe's Chemistry. *Three hours a week.*

4. *Physics.* (*a*) Lectures, together with Experiments, also (*b*) Recitations, both written and oral. Books of reference: Atkinson's Ganot, Deschanel's Natural Philosophy, Silliman's Physics. *Five hours a week.*

One of the following elective courses:

Advanced German. Schiller's Wilhelm Tell. *Two hours a week.*

Latin. (*a*) Horace's Ars Poetica — (*b*) Selections from the Epistles. *Two hours a week.*

Greek. Two hours a week.

Second Half-Year.

1. *Logic.* (*a*) Text-Book, Schuyler's Logic. Principal authors referred to in Logic: Sir W. Hamilton, DeMorgan, Thomas, Mill, Mansel, Bowen and Fowler. *Three hours a week.*

2. *Physiology.* Lectures. Books of reference: Orton's Comparative Zoölogy; Hutchison's Physiology and Hygiene; Dalton's and Marshall's Treatises on Physiology; Nicholson's Manual of Zoölogy. *Five hours a week.*

3. *Rhetoric.* (*a*) Chaucer, Spencer or Shakespeare. *Two hours a week.*—(*b*) Exercises in Elocution.—(*c*) Original speeches, *Saturdays.*

A sufficient number of the following elective courses to make up *six hours a week:*

Latin,
Greek,
German, Goethe's Iphigenie,
Geology, lectures,
Political Economy, lectures. Mill's Political Economy, Fawcett's Manual, Perry's Political Economy, Walker's Science of Wealth,
Analytical Chemistry, Laboratory practice,
Advanced Mechanics,
Botany, lectures and field excursions.

SENIOR CLASS.

First Half-Year.

1. *Intellectual Philosophy.* (*a*) Lectures.—(*b*) Essays by the class. Sir William Hamilton's Lectures on Metaphysics. Mansel's Metaphysics. Wayland's Intellectual Philosophy. Porter's Human Intellect. Ueberweg's History of Philosophy. *Five hours a week.*

2. *History.* Mediaeval History, from the Fall of the Western Empire to the Reformation.—(*a*) by lectures.—(*b*) by abstracts presented by the class. Guizot's European Civilization, Duruy's *Histoire du Moyen Age*, Gibbon's Roman Empire, Hallam's Middle Ages, Milman's Latin Christianity, Bryce's Holy Roman Empire, Kitchin's France, Stubbs's English Constitutional History. *Six hours a week.*

A sufficient number of the following elective courses to make up *five hours a week:*

Lectures on the History of Philosophy,
Lectures on Roman Law,
French, Modern Plays,
German, Goethe, Schiller, Lessing,
Latin,
Greek,
Analytical Chemistry, Laboratory practice,
Civil Engineering.

Second Half-Year.

1. *Moral Philosophy.* (*a*) Lectures, with (*b*) essays by the class. Wayland's Moral Science. Alexander's

Moral Science. Kant's Metaphysics of Ethics (Semple's translation). Calderwood's Hand-Book of Moral Philosophy. References to various authors. *Five hours a week.*

Natural Theology, and Evidences of Christianity, by Lectures.

2. *History.* (*a*) Modern History, from the Reformation to the French Revolution.—(*b*) Colonial History.—(*c*) Constitutional History of the United States; by lectures and abstracts. Duruy's *Histoire des Temps Modernes*, Hallam's Constitutional History of England, Stephen's Lectures on the History of France, Woolsey's International Law, Farrar's Manual of the Constitution, The Federalist. *Five hours a week.*

3. *International Law.*

A sufficient number of the following elective courses to make up *six hours a week:*

French,
German,
Latin,
Greek,
Geology,
Political Economy,
Zoölogy,
Agricultural Zoölogy, (students on State Scholarships are required to take this course.)
Botany,
Civil Engineering.

SECOND: FOR THE DEGREE OF BACHELOR OF PHILOSOPHY.

The following are outlines of the courses; but they may be subjected to such modifications as are hereafter found advisable:

When an Ancient Language is Studied.

FRESHMAN CLASS.

First Half-Year.

1. Greek or Latin, *five hours a week.*
2. Algebra, *five hours a week.*
3. French, *two hours a week.*
4. Civil Engineering, *five hours a week.*

Second Half-Year.

1. Greek or Latin, *five hours a week.*
2. Geometry and Trigonometry, *five hours a week.*
3. French, *two hours a week.*
4. Civil Engineering, *five hours a week.*

SOPHOMORE CLASS.

First Half-Year. The following required studies:

1. Greek or Latin, *two or three hours a week.*
2. Analytical Geometry and Calculus, *five hours a week.*
3. Rhetoric and Elocution, *three hours a week.*

A sufficient number of the following elective courses to make *six hours a week:*

4. French,
   German,
   Civil Engineering.

Second Half-Year. The following required studies:

1. Greek or Latin, *three or two hours a week.*
2. Mechanics, *five hours a week.*
3. Rhetoric and Elocution, *three hours a week.*

A sufficient number of the following elective courses to make *six hours a week:*

4. French,
   German,
   Civil Engineering.

JUNIOR CLASS.

First Half-Year.

1. Physics, *five hours a week.*
2. English Literature, *four hours a week.*
3. Astronomy, *three hours a week.*
4. Chemistry, *three hours a week.*

A sufficient number of the following elective courses to make up *two hours a week:*

German,
Latin,
Greek.

Second Half-Year. The following required studies:

1. Physiology, *five hours a week.*
2. Logic, *three hours a week.*
3. English Language, *two hours a week.*

A sufficient number of the following elective courses to make up *six hours a week:*

4. Geology,
   Political Economy,
   Latin,
   Greek,
   Analytical Chemistry,
   Advanced Mechanics,
   German,
   Botany.

SENIOR CLASS.

First Half-Year. The following required studies:

1. Intellectual Philosophy, *five hours a week.*
2. History, *six hours a week.*

A sufficient number of the following elective courses to make up *five hours a week:*

Lectures on History of Philosophy,
Lectures on Roman Law,
French,
German,
Latin,
Greek,
Analytical Chemistry,
Civil Engineering.

Second Half-Year. The following required studies:

1. Moral Philosophy and Natural Theology, *five hours a week.*
2. History and International Law, *five hours a week.*

A sufficient number of the following elective courses to make up *six hours a week:*

Latin,
Greek,
French,
German,
Geology,
Political Economy,
Analytical Chemistry,
Advanced Mechanics,
Botany,
Zoölogy,
Agricultural Zoölogy.

When an Ancient Language is not Studied.

FRESHMAN CLASS.

First Half-Year.

1. Algebra, *five hours a week.*
2. French, *two hours a week.*
3. Chemistry, *three hours a week.*
4. Civil Engineering, *five hours a week.*

Second Half-Year.

1. Geometry and Trigonometry, *five hours a week.*
2. French, *two hours a week.*
3. Analytical Chemistry, *five hours a week.*
4. Civil Engineering, *five hours a week.*

SOPHOMORE CLASS.

First Half-Year. The following required studies:

1. Analytical Geometry and Calculus, *five hours a week.*
2. Rhetoric and Elocution, *three hours a week.*

A sufficient number of the following elective courses to make up *eight hours a week:*

French or German,
Analytical Chemistry,
Civil Engineering.

Second Half-Year. The following required studies:

1. Mechanics, *five hours a week.*
2. Rhetoric and Elocution, *three hours a week.*

A sufficient number of the following elective courses to make up *eight hours a week:*

French or German,
Analytical Chemistry,
Civil Engineering.

JUNIOR CLASS.

First-Half-Year. The following required studies:

1. Physics, *five hours a week.*
2. English Literature, *four hours a week.*
3. Astronomy, *three hours a week.*

A sufficient number of the following elective courses to make up *four hours a week:*

French,
German,
Analytical Chemistry,
Civil Engineering.

Second Half-Year. The following required studies:

1. Physiology, *five hours a week.*
2. English Language, *two hours a week.*
3. Logic, *three hours a week.*

A sufficient number of the following elective courses to make up *five hours a week:*

Geology,
Political Economy,
Analytical Chemistry,
Advanced Mechanics,
German,
Botany.

SENIOR CLASS.

First Half-Year. The following required studies:

1. Intellectual Philosophy, *five hours a week.*
2. History, *six hours a week.*

A sufficient number of the following elective courses to make up *five hours a week:*

Lectures on the History of Philosophy,
Lectures on Roman Law,
French,
German,
Analytical Chemistry,
Civil Engineering.

Second Half-Year. The following required studies:

1. Moral Philosophy and Natural Theology, *five hours a week.*
2. History and International Law, *five hours a week.*

A sufficient number of the following elective courses to make up *six hours a week:*

French,
German,
Geology,
Political Economy,
Analytical Chemistry,
Advanced Mechanics,
Experimental Physics,
Zoölogy,
Agricultural Zoölogy,
Botany.

DEPARTMENTS OF PRACTICAL SCIENCE.

Departments of Practical Science have been established in the University for the benefit of students who wish to prepare themselves for such pursuits as require especially the knowledge of mathematical and of physical science, and their applications to the industrial arts.

In these departments provision has also been made for courses of instruction in "such branches of learning as are related to Agriculture and the Mechanic Arts." This provision has been made in accordance with an "Act of Congress granting lands for the establishing of Agricultural Colleges," and with "Resolutions of the General Assembly of the State of Rhode Island, accepting these lands, and assigning the same to Brown University." Students who enter only for these studies either in full or in part, are subject to the same conditions of admission as for any select course; and when they have duly pursued such studies, they will be entitled to a certificate stating the time of their University residence, and the amount of their acquisitions. They may, however, pursue these studies in connection with "the regular scientific and classical studies of the University," and when they have so pursued them as to fulfill the requirements for the degree of Bachelor of Arts or of Bachelor of Philosophy, they will be entitled to these degrees.

I. CHEMISTRY APPLIED TO THE ARTS.

The Chemical Laboratory is open to students (except on Saturdays) from 8.30 A. M. to 2.30 P. M.

It is the design of this department to teach students Analytical chemistry, and then to direct their studies to the practical

applications of chemistry. Particular attention is given to Metallurgy, Pharmacy, Medical chemistry, Agricultural chemistry, and the application of chemistry to manufacturing processes.

The course is not confined to undergraduates; other persons if prepared to pursue the study to advantage, are admitted to the Laboratory. A knowledge of the general principles of Chemistry, however, is absolutely necessary to profitable study in this department.

The Text books used are:

Appleton's Introduction to Qualitative Chemical Analysis, and Appleton's Introduction to Quantitative Chemical Analysis, Appleton's Chemical Reactions, Thorpe's Inorganic Chemistry, Thorpe's Chemical Problems.

The following works of reference, together with many others, are always in the Laboratory and always accessible to students:

Fresenius' Qualitative Chemical Analysis, Fresenius' Quantitative Chemical Analysis, Watts's Dictionary of Chemistry, Wurtz's *Dictionnaire de Chimie*, Storer's Dictionary of Chemical Solubilities.

In the Laboratory building there is a special library of about *six hundred* other standard works on Chemical subjects.

II. CIVIL ENGINEERING.

The regular course in this department occupies three years; the first year is mainly preparatory, but a longer or shorter course may be pursued, according to the wants or abilities of students. Those who are unable to pursue a full course, will find the studies so arranged that the knowledge and practice acquired in only a partial course will be practical and available. Ample provision will be made for the instruction of any who desire a more extended course than is here indicated, in Engineering and in Higher Mathematics.

The following is the order of study for the regular course:

First Year.

Use of Mathematical instruments, including Line drawing, Pen shading. Graphical construction of Plane problems; Free-hand drawing and shading; use of mathematical tables; Plane Trigonometry, and its application to the measurement of areas.

Second Year.

Plain surveying, including the theory and adjustment of instruments, Field practice, Plotting surveys, Computing areas; Descriptive Geometry. Shades and Shadows and linear Perspective.

Third Year.

Theory of structure, embracing the construction of foundations, Stone and Brick masonary; Isometrical and detailed drawings of the same; Calculation and geometrical representations of the strain on trusses and girders; Drawing of Plans, Profiles, Elevations and Sections.

Construction of machinery and bridges, and drawings of the same; Strength of materials used in construction; Estimation of the resistance of Friction and rigidity; and Hydraulics, embracing the structure and use of hydraulic machines, the investigation of the laws which govern the flow of water from reservoirs and the flow of water in rivers, canals and conduit pipes, and water used as a motor.

To pursue this course to the best advantage, the following mathematical studies taught in the University, should be pursued in connection with those above mentioned, viz.: Algebra, Geometry, Plane and Spherical Trigonometry, Analytical Geometry and Calculus.

Students desiring admission to this course are subject to an examination on the same amount of Mathematics as is required of candidates entering for a degree.

AGRICULTURE.

The instruction in Agriculture will embrace Zoölogy and Comparative Anatomy, illustrated by specimens from the Museum of Natural History, with field excursions for practical instruction in obtaining and preserving specimens, and in Taxidermy.

MUSEUM OF NATURAL HISTORY

IN RHODE ISLAND HALL.

The Museum is under the care of Professor John W. P. Jenks, who has been appointed by the Corporation to be its Curator. The collections it now contains, as classified and arranged by Professor Jenks, are as follows:

I.	In Zoölogy, including skeletons for comparative Anatomy,	
	Birds, (500 mounted,)	5,000
	Quadrupeds,	100
	Fishes and Reptiles,	600
	Insects,	2,100
2.	In Mineralogy, specimens,	9,300
3.	In Geology and Palæontology, specimens,	4,300
4.	In Conchology,	12,600
5.	Indian Implements and Relics, chiefly from New England, specimens,	925
6.	Implements and curiosities of other uncivilized peoples,	400
7.	Coins and Medals,	2,100
8.	Corals and Sponges,	125
9.	Botany, (miscellaneous collection,)	200
10.	The Herbarium presented by W. Whitman Bailey, B. P.,	1,500

LIBRARY.

The University Library is at present in the lower part of Manning Hall. It contains *forty-five thousand* well-bound and carefully selected volumes. In its early history it received additions in the form of donations and legacies made by friends of the College, both in this country and in England. During the Presidency of Dr. Wayland, a permanent Library fund of twenty-five thousand dollars was raised by subscription. Since that time, the income of this fund has been expended, under the direction of a joint Committee of six persons, appointed annually by the Corporation and the Faculty of the University.

Upon the Library table may be found the most important American and English periodicals, and also periodicals in the German and French languages pertaining to science, history, literature, bibliography, philology and the classics.

The Library is open in term-time every day, between the hours of ten and three, except on Saturdays when it is open from ten to twelve; during vacations it is open on Saturdays. Books are allowed to be taken out and retained two weeks, but not to be carried beyond the limits of the city. The members of the Corporation and the Faculty, all resident graduates, all donors to the Library fund, all donors to the fund for building Rhode Island Hall, and all donors to the Library to the amount of forty dollars, residing in Providence, are entitled to the use of the library, without expense. Undergraduates are entitled to the use of the Library and are charged therefor the sum of three dollars per annum. The privilege of consulting the Library is extended, under certain restrictions, to all graduates of the University, to all settled clergymen residing in Providence

and vicinity, and to those other persons on whom the Corporation or Library Committee may from time to time confer it.

The late John Carter Brown, A. M., for many years a member of the Board of Fellows, gave to the University some years since, the sum of fifteen thousand dollars toward the erection of a fireproof Library building. At his death he bequeathed the additional sum of fifty thousand dollars, and a lot of land for the same purpose.

The new Library building (in which accommodations for one hundred and fifty thousand volumes are provided), is now nearly ready for occupancy.

COLLECTION OF PORTRAITS.

Through the liberality of the friends of the College, a collection of portraits has been presented to it, and deposited in the new Picture gallery in Rhode Island Hall. It consists of portraits of benefactors of the University, of some of its former officers, and of men whose names are conspicuous in the earlier or the more recent annals of Rhode Island.

Two new portraits have been added during the past year, viz.:

Portrait of Usher Parsons, M. D., presented by his son, Professor Charles W. Parsons, M. D.

Portrait of Captain Pierre Douville, presented by his granddaughters, Miss Cynthia Douville Willis and Mrs. Sarah A. Tinkham (daughters of John Willis, A. B., of the class of 1807.)

PUBLIC WORSHIP.

The exercises of every day commence with Prayers in the College Chapel. All Students are also required to attend public worship twice on Sunday. For this purpose, each one reports to the President, at the beginning of the term, the church which he will attend.

GYMNASIUM.

The Corporation appropriates $400. a year for the rent of a Gymnasium Hall, *for the exclusive use of students of the University.* Students have access to this Gymnasium upon payment of a moderate assessment to the Students' Gymnasium Club.

SEMI-ANNUAL EXAMINATIONS.

Examinations of all the classes are held at the close of each half-year.

Some examinations are conducted by writing, some are oral, while in certain cases the same class is subjected to both tests. The maximum mark assigned is 20. If, upon examination in a given study, a student receives a mark which is less than 10, he fails to "pass" in that study, and must prepare himself for a subsequent examination.

Committees of Examinations have been appointed for the several departments as follows:

1. Greek.

Rev. Thatcher Thayer, D. D., Merrick Lyon, LL. D.,
Rev. Heman Lincoln, D. D., Edward H. Cutler, A. M.,
Rev. John B. G. Pidge, A. B.

2. Latin.

Rev. John C. Stockbridge, D. D., Horato N. Slater, Jr., A. M.,
Lucius O. Rockwood, A. M., Frederick W. Tilton, A. M.,
Charles B. Goff, A. M., Rev. C. H. Wheeler, A. M.

3. German.

Rev. Alvah Hovey, D. D., Samuel W. Peckham, A. M.,
Stephen H. Arnold, Esq., Rev. Carl W. Ernst, A. M.,
G. Radeke, M. D.

4. French.

William Goddard, A. M., Edward T. Caswell, M. D.,
Edwin M. Snow, M. D., Howard M. Rice, A. M.,
David W. Hoyt, A. M.

5. Rhetoric and English Literature.

Rev. Samuel L. Caldwell, D. D., Rev. Adoniram J. Gordon, A. M.,
Alexander Farnum, A. M., Rev. J. G. Vose, D. D.,
Rev. S. D. Phelps, D. D.

6. Physiology.

Edwin M. Snow, M. D., J. C. Greenough, A. M.,
S. S. Keene, M. D., Oliver C. Wiggin, M. D.,
L. W. Russell, Esq.

7. Physics.

Hon. Rowland Hazard, A. M., Prof. George I. Chace, LL.D.,
William A. Mowry, A. M., Hon. Samuel Powel,
Arnold B. Chace, A. M., Prof. John Peirce,
George H. Corliss, A. M.

8. History and Political Economy.

Hon. Charles S. Bradley, LL. D., Prof. William Gammell, LL. D.,
Hon. Samuel G. Arnold, A. M., Hon. John R. Bartlett, A. M.,
Rev. Augustus Woodbury, A. M.

9. Intellectual and Moral Philosophy.

Rev. Alva Woods, D. D., Rowland G. Hazard, LL. D.,
Rt. Rev. Thomas M. Clark, D. D., Prof. George I. Chace, LL. D.,
Rev. Daniel Leach, D. D.

10. Mathematics and Astronomy.

Zachariah Allen, LL. D., Charles P. Robinson, A. M.,
J. Herbert Shedd, Esq., Edward Pearce, Jr., A. M.,
Emory Lyon, M. D., Hon. A. E. Burnside, A. M.

11. Chemistry.

Marshall Woods, M. D., Prof. John Peirce,
Arnold B. Chace, A. M., Amasa M. Eaton, Esq.

12. Logic.

Rev. A. H. Granger, D. D., Hon. Thomas Durfee, LL. D.,
Rev. W. F. Bainbridge, A. B., William W. Douglas, LL. B.,
Rev. Elias H. Johnson, A. M.

EXPENSES.

The term bills are paid in advance, at the commencement of each half year; and *no student can take his place in his class until his bill for the term has been paid.*

If a student is matriculated as a candidate for a degree, he is charged a fee of $5.

The College expenses for the year are as follows:—

Tution, $50.00 per half year,		$100 00
Room rent, $10.00 per half year,		20 00
Use of Library, $1.50 per half year,		3 00
Register's salary $2.00 per half year,		4 00
Public fuel, Servants' hire, Printing,	Charged at cost, but average about	22 00
		$149 00

To meritorious students, needing assistance, a reduction of 30 to 50 per cent. of the charge for tuition may be made.

If a student occupy a room alone, his rent and servants' hire are doubled.

It has been customary to charge to the graduating class the expense of its own Commencement exercises. For the Commencement in 1877 the charge was fixed at $18.00 for each member of the class.

Board is not furnished in College. The Register keeps a list of the names of families in the city by whom Board and Lodging are furnished to students at the following rates:

Board at from $3.00 to $5.00 per week. (Probably the larger proportion of students pay at present under $4.00 per week for board.) Board and Lodging, with furnished rooms, from $5.00 to $7.00 per week.

The above estimate for tuition does not include the fees for instruction in Chemistry applied to the Arts.

The expenses of a student who takes a course of study in the Chemical Laboratory, of two hours daily, are (for each half year,) as follows :—

Tuition, - - - - -	$15 00
Gas, chemicals, &c., - - - -	18 33
Breakage, (varying with the student's care,) about	3 00
	$36 33

Students who take courses of four hours or of six hours daily, pay respectively double or treble the above amounts.

PECUNIARY AID TO STUDENTS.

Scholarships.

Among the various forms of aid offered to students, there are about one hundred scholarships.

There are *sixty-two* Scholarships of One Thousand Dollars each, the income of which is given, under the direction of a committee appointed by the Corporation, to meritorious students who may need pecuniary assistance.*

The Nicholas Brown Scholarships. Eleven, founded by a bequest made by Nicholas Brown.

The University Scholarships. Four, from College funds appropriated by the Corporation to this use.

The President's Scholarship. Founded by Barnas Sears, when President of the College.

Alva Woods Scholarships. Five, founded by Alva Woods.

* A scholarship is forfeited if the candidate incurs college censure, or fails to secure at least *seventy-five* per cent. of the maximum mark.

James H. Duncan Scholarship. Five, founded by James H. Duncan.

Isaac Davis Scholarship. Founded by Isaac Davis.

Arnold Whipple Scholarship. Founded in memory of Arnold Whipple, by Mrs. Arnold Whipple.

Ephraim Wheaton Scholarship. Founded by James Wheaton.

Joseph Brown Scholarship. Founded by Mrs. E. B. Rogers.

Gardner Colby Scholarship. Founded by Gardner Colby.

James Y. Smith Scholarship. Founded by James Y. Smith.

S. S. Bradford Scholarships. Two, founded by S. S. Bradford.

Frances R. Arnold Scholarship. Founded by Mrs. Frances R. Arnold.

Cornelia E. Green Scholarship. Founded by Mrs. Cornelia E. Green.

Crocker Scholarship. Founded by Robert H. Ives and Thomas P. Ives.

Clark Scholarship. Founded by Robert H. Ives and Thomas P. Ives.

Albert Day Scholarship. Founded by Albert Day.

Henry P. Kent Scholarship. Founded by Henry P. Kent.

Romeo Elton Scholarship. Founded by Romeo Elton.

Anne E. Waters Scholarships. Five, founded by Mrs. Anne E. Waters.

L. Fairbrother Scholarship. Founded by Mrs. L. Fairbrother.

George Lawton Scholarship. Founded by George Lawton.

John P. Crozer Scholarship. Founded by Mrs. Margaret Bucknell.

Horatio N. Slater Scholarship. Founded by Horatio N. Slater.

Earl P. Mason Scholarship. Founded by Earl P. Mason.

Newport Scholarship. Founded by William Sanford Rogers.

Alexis Caswell Scholarship. Founded by Alexis Caswell.

G. K. and H. A. Pevear Scholarship. Founded by G. K. and H. A. Pevear.

Joseph C Hartshorn Scholarship. Founded by Joseph C. Hartshorn.

Rogers High School Scholarship. Founded by William Sanford Rogers.

James Wheaton Scholarship. Founded by James Wheaton.

Charles Thurber Scholarship. Founded by Charles Thurber.

Pardon Miller Scholarship. Founded by Mrs. Ann E. Miller.

Hezekiah S. Chase Scholarship. Founded by Hezekiah S. Chase.

William Bucknell Scholarship. Founded by William Bucknell.

Austin Merrick Scholarship. Founded by Mrs. Olive E. Merrick.

Jackson Scholarships. Three, founded by Henry Jackson.

Mumford Scholarship. Founded by Mrs. Louisa D. Mumford.

Besides the above Scholarships, there are others, the assignment of which is made subject to special provisions. These are as follows:

The Carpenter Scholarships. Two, founded by Thomas Carpenter and Lydia Carpenter, the income of which is given in two premiums of sixty dollars each, at the *end of the Senior year*, to the two members of the Senior class, who "already on Scholarships, shall in the judgment of the Faculty, unite in the highest degree, the three most important elements of success in life, ability, character and attainment."

For the year 1876–7 the Carpenter Scholarships were awarded to

CHARLES BROWN ELDER

AND

GEORGE OTIS WARD.

The Bartlett Scholarship. Founded by Mrs. Elizabeth Slater Bartlett, by a donation of four thousand dollars, the income of which is to be "devoted to the support of one or more students needing pecuniary aid, and giving promise by studious aims and by character and scholarship of rising to distinction and usefulness."

The Glover Scholarship. Founded by a donation of five thousand dollars, by Henry R. Glover, "in memory of his father Samuel Glover, a graduate of the College, of the class of 1808, and of his brother Samuel Glover, Jr., of the class of 1839." The assignment of this scholarship is made upon the basis of high character and collegiate attainments.

The Scholarship of the class of 1838, of thirty-eight hundred dollars. Founded by members of the class of 1838, and also assigned upon the basis of high character and scholarship.

Scholarships of the Department of Agriculture. By Resolutions of the General Assembly of the State of Rhode Island, the national grant "for the benefit of Agriculture and the Mechanic Arts," was given to Brown University; and the fund of fifty thousand dollars, which has accrued from this grant, is by agreement on the part of the University devoted to the education "of scholars, each at the rate of one hundred dollars per annum, to the extent of the entire annual income." Appointments to these scholarships, are made, on the nomination of the General Assembly, by the Governor and Secretary of State, in conjunction with the President of the University.

Aid Fund.

A fund of something over eight thousand dollars has been given to the University by two of its friends, the income of which is applied to the assistance, either by loan or by gift, of deserving young men of limited means.

PREMIUMS.

I. For Excellence in Preparatory Studies.

The President's Premiums. These are derived from the income of a donation made by the late Rev. Francis Wayland, D. D., while President of the University. They are awarded to those members of the Freshman class, candidates for the degree of Bachelor of Arts, or of Bachelor of Philosophy, who are found, *upon a special examination*, to have attained the highest excellence in the classical studies preparatory to admission to College. They are fixed by the statutes as follows :—

A First Premium of fifteen dollars, and a second of ten dollars, for excellence in the Greek language.

A First Premium of fifteen dollars, and a second of ten dollars, for excellence in the Latin language.

The competitors are examined in the classical studies required, as preparatory for admission to the College.

This year, (1877,) the award of these Premiums was as follows :

I. Greek.

The First Premium to Walter James Town, instructed by Edward H. Cutler, A. M., in the Providence High School.

The Second Premium to Benjamin Barker, Jr., instructed by Charles B. Goff, A. M., in the English and Classical School, Providence, William A. Mowry, A. M., and Charles B. Goff, A. M., Principals.

II. Latin.

The First Premium to Walter James Town, instructed by Edward H. Cutler, A. M., in the Providence High School.

The Second Premium to EDWARD RANDALL KNOWLES, instructed by S. G. Croswell, A. B., and D. W. Abercrombie, A. B., in St. Mark's School, Southborough, Mass, Rev. J. I. T. Coolidge, D. D., Principal.

The Hartshorn Premiums. JOSEPH C. HARTSHORN, A. M., a graduate of the class of 1841, has made a donation to the University, the income of which is appropriated to *three Premiums*, viz.:

A First Premium of thirty dollars,
A Second Premium of twenty dollars,
A Third Premium of ten dollars.

These are awarded to those members of the Freshman class, who are found upon examination to have excelled in the preparatory mathematical studies.

This year, (1877,) these Premiums were awarded as follows:

The First Premium to MORGAN BROOKS, instructed in the Roxbury Latin School by W. C. Collar, A. M., and M. Grant Daniell, A. M.

The Second Premium to WALTER JAMES TOWN, instructed by Benjamin I Wheeler, A. B., in the Providence High School.

The Third Premium to WALTER ORESTES CARTWRIGHT, instructed by C. F. P. Bancroft, Ph. D., in Phillips Academy, Andover, Mass.

II. For Excellence in College Studies.

Carpenter Prizes for Elocution. These are: A First Prize of *sixty* dollars. A Second Prize of *thirty-six* dollars. A Third Prize of *twenty-four* dollars.

They are derived from the income of a fund established by THOMAS CARPENTER. They are awarded annually to the three members of the Sophomore Class to whom shall be assigned

respectively the first, second and third rank of excellence, in speaking. The assignment is made by a committee appointed for the purpose and after trial at a public exhibition given on the Monday before Commencement.

The competitors must be members of the Sophomore Class; they may declaim pieces in prose or verse, selected from English authors, but their selection must be approved by the Professor of Rhetoric; they must enter their names with this Professor not later than on the tenth day before the exhibition.

The Committee of Award will consist of five members and will be formed as follows: the Professor or Instructor in Elocution, who will be the Chairman, two persons elected by the Corporation, also two elected by the Sophomore Class, during the first term of the year, it being understood that no one who is or has been a member of that class is eligible.

The Committee of Award for 1877 consisted of the Professor of Rhetoric, Charles H. Parkhurst, A. B., Rev. Elias H. Johnson, A. M., Benjamin N. Lapham, A. M., Rev. Daniel H. Greer.

They awarded the Prizes as follows:

The First, to Arthur Hudson Harrington.
The Second, to Charles Henry James Douglas.
The Third, to Frederick Eugene Partington.

The Howell Premium. This fund, amounting to One thousand dollars, was founded by the late Gamaliel Lyman Dwight and the income is given, at the *close of the first half of the Junior year*, to the student "who having a good record of deportment, has the highest rank in Mathematics and Natural Philosophy."

For the year 1876–7 this Premium was awarded to

Isaac Oscar Winslow.

The Dunn Premium. This fund, now amounting to something over Eight hundred dollars, was founded by pupils and friends of the late Professor Robinson P. Dunn, the income to be given *at the end of the Junior year*, "to the student having the highest standing in the rhetorical studies of the year."

For the year 1876–7 this premium was awarded to

WALTER GARDNER WEBSTER.

Class of 1873 Fund. This fund, amounting to Five hundred dollars, was presented to the University by the class of 1873, on the condition that its income should be devoted to constituting a prize for an Essay. The prize is to be annually offered for competition to members of the Senior Class, and at such time and in such manner as the Faculty shall determine. The conditions of the competition will be announced hereafter.

COMMENCEMENT HONORS IN THE CLASS OF 1877.

The Valedictory Addresses, William Paine Sheffield, Jr.
The Salutatory Oration, Charles Seaver Scott.
The Classical Oration, Charles Brown Elder.
The Philosophical Oration, John Russell Gow.

DEGREES CONFERRED IN 1877.

THE DEGREE OF BACHELOR OF ARTS, UPON

Charles Talbot Aldrich,
Edgar Fowler Ballou,
Harry Maturin Ballou,
Walter Irving Ballou,
Thomas Elliott Bartlett,
Wayland Everett Benjamin,
Cary Carpenter Bradford,
Franklin Pierce Capron.
George Henry Culver,
Joseph Taft Day,
George William Dow,
Henry Scudder Drake,
Charles Brown Elder,
Rathbone Gardner,
Asa Eldridge Goddard,
John Russell Gow,
Edward Green,
Charles Franklin Hall,
Howard Forde Hansell,
Thomas Allen Jenckes,
Clark Howard Johnson,
James Prentice Kelley,
William Moore Knight,
Frank Terry Latham,
Christopher Marble Lee,
Edwin Daniel McGuiness,
George Washington Milford,
Joseph Davis Milne,
Raymond Greene Mowry,
Inman Edward Page,
Julius Palmer,
Walter Asa Peck,
Dryden William Phelps,
Edward Elisha Pierce,
Jefferson Rowland Potter,
Frank Kingman Pratt,
Frederick Rückert,
Charles Seaver Scott,

William Paine Sheffield, Jr.,
Charles Theodore Snow,
Frank Arthur Spence,
Isaac Hinckley Southwick,
Frank Louis Sullivan,
Willis Frye Thomas,
Wilmarth Heath Thurston,
Joseph Henry Tyler,
William Grant Van Horne,
George Otis Ward,
Fred Homer Williams,
Patrick Whitney,
Charles Sumner Young.

THE DEGREE OF BACHELOR OF PHILOSOPHY,

UPON

Charles Harvey Finch,
Charles Edmunds Kimball,
George Henry Slade,
Frederick Albert Hyde.

THE DEGREE OF MASTER OF ARTS (In Course,)

UPON

Adin Ballou Underwood, of the class of 1849.
Daniel Rhodes, of the class of 1873.

And upon the following, of the class of 1874:

Harmon Seeley Babcock,
Thomas Seymour Barbour,
John Milton Burnham,
Albert Gallup,
Nathan Leavenworth,
Charles Brenton Mathewson,
George Metcalf, Jr.,
John Myron Potter,
William Francis Ray,
Frank Ernest Rockwood,
Charles William Tarleton,
John Brooks Wheeler,
William Nelson White,
Frank Perkins Whitman,
Edson Gaius Wooster.

THE DEGREE OF MASTER OF ARTS, (honorary,)

UPON

Rev. James Ferdinand Morton, of New London, New Hampshire.

Rev. Elias Henry Johnson, of Providence.

CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

BROWN UNIVERSITY

1878-79.

PROVIDENCE:
J. A. & R. A. Reid, Printers.
1878.

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1878-79.

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CALENDAR FOR 1878-9.

1878.

September 4, *Wednesday.* Annual Meeting of the Corporation.

September 18, *Wednesday.* **Academic year begins** (Third Wednesday in September).

November 28, *Thursday.* Thanksgiving Day. (No College exercises on Thursday, Friday, and Saturday of Thanksgiving week.)

Christmas Holidays, from evening of Friday, December 20, 1878, to evening of Thursday, January 2, 1879.

1879.

January 22, 23, 24, *Wednesday, Thursday, Friday.* Semi-Annual Examinations of College Classes.

January 27, *Monday.* **Second half-year begins.**

February 22, *Saturday.* Washington's birthday. No College exercises.

Spring Recess, Saturday March 29, to Monday evening, April 7.

April 19, *Saturday.* Junior Exhibition.

May 22, 23, 24, *Thursday, Friday, Saturday.* Examination of Senior Class.

May 30,	*Friday*. Decoration day. No College exercises.
June 10, 11, 12,	*Tuesday*, *Wednesday*, *Thursday*. Semi-Annual Examinations of College Classes.
June 13,	*Friday*. Class Day.
June 15,	*Sunday*. Baccalaureate Sermon.
June 16,	*Monday*. Sophomore Prize Declamation.
June 17,	*Tuesday*. Annual Meeting of the Phi Beta Kappa Society, 9.30 A. M.
June 17,	*Tuesday*. Annual Alumni Meeting in Manning Hall, at 4 P. M.
June 18,	*Wednesday*. **One hundred and eleventh annual Commencement**, (third Wednesday in June).
June 19,	*Thursday*. Meeting of the Corporation.
June 19, 20, 21,	*Thursday*, *Friday*, *Saturday*. Examination for admission to College. Candidates assemble at No. 12 University Hall, at 8 o'clock, A. M. They must be in attendance all three days.
	Summer Vacation.
September 3,	*Wednesday*. Annual Meeting of the Corporation in Rhode Island Hall (on the first Wednesday in September).
September 16,	*Tuesday*. Examination of Delinquents in College Studies.
September 16, 17,	*Tuesday*, *Wednesday*. Examinations for admission.
September 17,	*Wednesday*. **Academic year begins.**

CORPORATION.

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JOSEPH C. HARTSHORN, A. M.

* Deceased.

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Rev. DANIEL LEACH, D. D.
Rev. C. EDWIN BARROWS, A. M.
RICHARD M. ATWATER, A. M.

Rev. SAMUEL L. CALDWELL, D. D.,

SECRETARY OF THE CORPORATION.

MARSHALL WOODS, A. M.,

TREASURER.

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FRANCIS W. BIRD, A. M.
SAMUEL S. GREENE, LL. D.
ALBERT HARKNESS, PH. D., LL. D.
CHARLES B. GOFF, A. M.
EDWARD T. CASWELL, M. D.
FRANCIS A. GASKILL, A. B.

MEMBERS OF THE FACULTY,

AND

OTHER OFFICERS.

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President,

Professor of Moral and Intellectual Philosophy.

JOHN L. LINCOLN, LL. D.,

Professor of the Latin Language and Literature.

SAMUEL S. GREENE, LL. D.,

Professor of Mathematics and Astronomy.

ALBERT HARKNESS, Ph. D., LL. D.,

Professor of the Greek Language and Literature.

Rev. J. LEWIS DIMAN, D. D.,

Professor of History and Political Economy.

BENJAMIN F. CLARKE, A. M.,

Professor of Mathematics and Civil Engineering.

JOHN H. APPLETON, A. M.,

Newport-Rogers Professor of Chemistry.

T. WHITING BANCROFT, A. M.,

Professor of Rhetoric and English Literature, and Instructor in Elocution.

ELI W. BLAKE, Jr., A. M.,

Hazard Professor of Physics.

* *Elton Professor of Natural Theology.*

JOHN W. P. JENKS, A. M.,

Professor of Agricultural Zoölogy and Curator of the Museum.

CHARLES W. PARSONS, M. D.,

Professor of Physiology.

ALONZO WILLIAMS, A. M.,

Professor of Modern Languages.

WILLIAM C. POLAND, A. M.,

Assistant Professor of Latin and Greek.

ALPHEUS S. PACKARD, JR., M. D.,

Professor of Zoölogy and Geology.

NATHANIEL F. DAVIS, A. M.,

Instructor in Mathematics.

W. WHITMAN BAILEY, B. P.,

Instructor in Botany.

EDWIN E. CALDER,

Assistant Instructor in Analytical Chemistry.

REUBEN A. GUILD, LL. D.,

Librarian.

DANIEL BECKWITH, A. B.,

Assistant Librarian.

REV. WILLIAM DOUGLAS, A. M.,

Registrar.

* At present, instruction in Natural Theology is given by the PRESIDENT of the University.

GRADUATE STUDENTS.

Charles Talbot Aldrich, A. B.,	230 Hope St.
Henry Leprelate Aldrich, Jr., A. B.,	230 Hope St.
Robert Willard Burbank, A. B.,	10 Pitman St.
Clarkson Abel Collins, A. B.,	Lloyd Ave.
Alfred Nelson Fairbank, A. B.,	19 Waterman St.
William Eaton Foster, A. M.,	Cor. Chestnut and Pine Sts.
Alfred Gideon Langley, A. B.,	Newport.
John Hale Mason, A. B.,	Cor. Cooke and Manning Sts.
George Metcalf, Jr., A. M.,	28 South Court St.
William Mauran Stockbridge, A. B.,	14 George St.
Walter Gardner Webster, A. B.,	108 Clifford St.
Benjamin Ide Wheeler, A. M.,	20 Barnes St.
Frank Perkins Whitman, A. M.,	107 Waterman St.
Isaac Oscar Winslow, A. B.,	42 Pearl St.

UNDERGRADUATES.

SENIOR CLASS.

NAME.	RESIDENCE.	ROOM.
Edward Stowe Adams,	*Fall River, Mass.*,	21 H. C.
Henry Burr Anthony,	*Providence*,	45 Manton Av.
Edward Ernest Atkinson,	*Boston, Mass.*,	35 H. C.
George Folger Barnard,	*Lynn, Mass.*,	51 U. H.
Charles Pattison Bennett,	*Philadelphia, Pa.*,	46 H. C.
Charles Sumner Boyer,	*Philadelphia, Pa.*,	46 H. C.
William Potter Buffum,	*Newport*,	Cooke and Waterman Sts.

NAME.	RESIDENCE.	ROOM.
Newton Sherwood Calhoun,	*Bethlehem, Conn.*,	19 U. H.
Alva Edwin Carpenter,	*Providence*,	34 W. Exchange St.
David Austen Chase,	*Jeffries (Clearfield Co.), Pa.*,	36 H. C.
George Francis Comstock,	*Woonsocket*,	54 U. H.
Wallace Peter Dick,	*S. Woodstock, Conn.*,	57 U. H.
Charles Henry James Douglas,	*Providence*,	22 Barnes St.
James Hervey Earle,	*Fiskeville*,	8 H. C.
Gorham Easterbrook,	*Boston, Mass.*,	10 H. C.
Alfred Updike Eddy,	*Providence*,	380 Benefit St.
Stephen Ostrom Edwards,	*Glen, N. Y.*,	19 U. H.
Edward Francis Ely,	*Providence*,	Waterman and Prospect Sts.
Frank Alexander Farnum,	*Providence*,	34 Aborn St.
Edward Pike Greene,	*Providence*,	15 Parade St.
John Jesse Greene,	*Hope Valley*,	15 H. C.
Albert Granger Harkness,	*Providence*,	101 Prospect St.
Arthur Hudson Harrington,	*Worcester, Mass.*,	50 U. H.
Charles William Hastings,	*Suffield, Conn.*,	36 U. H.
Stephen Goodwin Hastings,	*West Suffield, Conn.*,	36 U. H.
Truman Johnson,	*Providence*,	47 H. C.
Henry Webster Kegwin,	*Jewett City, Conn.*,	46 U. H.
Lyman Winslow King,	*Newton Centre, Mass.*,	31 H. C.
Charles Henry Kinne,	*Norwich, Conn.*,	325 Friendship St
George Ide Malcom,	*Newport*,	42 U. H.
Edward Sprague Marsh,	*Brandon, Vt.*,	41 H. C.
Walter Lee Munro,	*Bristol*,	23 H. C.
Frederick Eugene Partington,	*Portland, Me.*,	62 George St.
William Cooper Readio,	*Haverstraw, N. Y.*,	Pawtucket.
Samuel Augustus Severance,	*Boston, Mass.*,	11 H. C.
Samuel Randall Simmons, Jr.,	*Providence*,	34 Benevolent St.
Louis Rhodes Southworth,	*S. Woodstock, Conn.*,	57 U. H.
Joel Mann Spencer, Jr.,	*Washington*,	23 H. C.
Howard York Stillman,	*Westerly*,	20 U. H.
Orin Jones Sturgis,	*Smithfield (Fayette Co.), Pa.*,	36 H. C.
Willard Brooks Tanner,	*Providence*,	9 Providence St.
William Richmond Tillinghast,	*Providence*,	108 Angell St.
Charles James Tucker,	*Providence*,	47 Hudson St.
Francis Hubbard Viets,	*East Granby, Conn.*,	29 H. C.

NAME.	RESIDENCE.	ROOM.
Stephen Albro Welch,	*Providence*,	23 Carpenter St.
James Lee Wells,	*Hopkinton*,	8 H. C.
Judson Irving Wood,	*Millbury, Mass.*,	48 H. C.

Select Course.

Edgar Thomas Farrill,	*Providence*,	47 H. C.

JUNIOR CLASS.

NAME.	RESIDENCE.	ROOM.
Augustus Levi Abbott,	*La Crosse, Wis.,*	34 H. C.
Charles Robert Adams,	*Holyoke, Mass.,*	13 H. C.
Walter Foster Angell,	*Atlanta, Ill.,*	33 Benefit St.
Wilberforce Ewing Archibald,	*Manchester, Vt.,*	47 U. H.
James Austin, Jr.,	*Woonsocket,*	52 U. H.
Edmund Neville Bennett,	*Taunton, Mass.,*	24 H. C.
John Taggard Blodgett,	*Refugio, Texas,*	42 H. C.
Henry Jackson Boyce,	*Providence,*	122 Knight St.
Gibbs Braislin,	*Burlington, N. J.,*	18 H. C.
Charles Edwin Burdette,	*Peoria, Ill.,*	3 H. C.
John Nathan Butman,	*Providence,*	138 Thurber's Ave.
Zechariah Chafee, Jr.,	*Providence,*	5 Cooke St.
Prescott Orloff Clarke,	*Providence,*	66 Keene St.
John Loring Crane,	*East Braintree, Mass.,*	439 Benefit St.
James Wallace Darrow,	*East Chatham, N. Y.,*	13 H. C.
Walter Edward Delabarre,	*Blackstone, Mass.,*	44 H. C.
Henry Dunster, Jr.,	*Providence,*	53 Vernon St.
Samuel Slater Durfee,	*Providence,*	49 Benefit St.
Richard Bartlett Esten,	*S. Attleboro', Mass.,*	38 H. C.
William Herbert Perry Faunce,	*Lynn, Mass.,*	12 H. C.
Frank Eustace Fitz,	*Chelsea, Mass.,*	41 College St.
George Stephen Goodspeed,	*Syracuse, N. Y.,*	3 H. C.

NAME.	RESIDENCE.	ROOM.
Augustus Arabert Greene,	*Providence,*	31 Greenwich St.
Fred Mason Hammett,	*Newport,*	22 H. C.
Henry Gano Hardy,	*Malden, Mass.,*	27 H. C.
Arthur Whitney Howe,	*Philadelphia, Pa.,*	58 Angell St.
Charles William Jencks, Jr.,	*Providence,*	16 Elmwood Av.
Herbert Ide Keen,	*Philadelphia, Pa.,*	41 U. H.
John Power Knowles, Jr.,	*Providence,*	9 Charles Field St.
Isaac Albert Lamson,	*Hamilton, Mass.,*	16 H. C.
William Hoyle Lane,	*Central Falls,*	47 U. H.
James Granger Lincoln,	*Providence,*	58 Angell St.
Philip Augustus Mathewson,	*Providence,*	19 H. C.
Walter Sydney Meader,	*Gonic, N. H.,*	48 U. H.
Donald Littlefield Morrill,	*Auburn, Me.,*	274 Benefit St.
Samuel Hanson Ordway,	*Providence,*	272 Benefit St.
John Holden Ormsbee,	*Providence,*	294 Benefit St.
Edgar Perry,	*Rehoboth, Mass.,*	56 U. H.
James Tobey Pyke,	*Providence,*	250 Angell St.
William Francis Richardson,	*Andover, Mass.,*	31 H. C.
J. Lee Richmond,	*Geneva, Ohio,*	38 U. H.
Sidney White Rivenburg,	*Clifford, Pa.,*	49 U. H.
Owen Bishop Rogers,	*Providence,*	38 Keene St.
David Foster Slade,	*Somerset, Mass.,*	6 H. C.
Samuel Watson Smith, Jr.,	*Cincinnati, Ohio,*	51 Waterman St.
Wesley Lorenzo Smith,	*Malden, Mass.,*	30 H. C.
James Clay Starkweather,	*Pawtucket,*	17 H. C.
George West Stone,	*Waymart, Pa.,*	49 U. H.
Fred Clay Tenney,	*Orange, Mass.,*	42 H. C.
Benjamin Franklin Thurston,	*Newport,*	26 H. C.
Frank Luscombe Tinkham,	*Taunton, Mass.,*	19 Angell St.
William Ramsay Trotter,	*Bristol,*	2 H. C.
George Miller Tustin,	*Bloomsburg, Pa.,*	53 U. H.
Frederick Johnson Clegg Walton,	*Lynn, Mass.,*	30 H. C.
Paul Waterman,	*Providence,*	72 Meeting St.
Edward B. Wilson,	*Warren, Ohio,*	52 U. H.
William Henry Winslow,	*Larone, Maine,*	48 U. H.

Select Course.

Oliver Perry Clarke,	*Providence,*	38 U. H.
William Hale, Jr.,	*South Berwick, Me.,*	35 U. H.

SOPHOMORE CLASS.

NAME.	RESIDENCE.	ROOM.
Charles Francis Adams,	*New York, N. Y.*,	14 H. C.
William Cotter Baker,	*Wickford*,	34 U. H.
Benjamin Barker, Jr.,	*Tiverton*,	270 Benefit St.
George Fremont Bean,	*Warner, N. H.*,	40 U. H.
George Bickford Brigham,	*Westboro', Mass.*,	9 H. C.
Morgan Brooks,	*Boston, Mass.*,	40 H. C.
Percy Shelley Burbank,	*Providence*,	38 Barnes St.
Friend Preston Carpenter,	*Providence*,	44 U. H.
Walter Orestes Cartwright,	*Wakefield, Mass.*,	44 U. H.
William Sheafe Chase,	*Providence*,	96 Mathewson St.
Charles Walter Connell,	*Fall River, Mass.*,	62 George St.
Howard Potter Cornell,	*Providence*,	165 Angell St.
Samuel Winslow Culver,	*Providence*,	156 Point St.
Frank Herbert Gifford,	*New Bedford, Mass.*,	7 George St.
Paul Coffin Gifford,	*Olneyville*,	45 U. H.
John Russell Gladding,	*Providence*,	43 Chestnut St.
Frederic Hayes,	*Providence*,	344 Benefit St.
Frederick Rowland Hazard,	*Peacedale*,	45 William St.
Alfred Howland Hood,	*Somerset, Mass.*,	31 U. H.
Charles Evans Hughes,	*Brooklyn, N. Y.*,	171 Congdon St.
Samuel Lafayette Irons,	*Harmony*,	46 U. H.
Howard Clifton Jewett,	*Haverhill, Mass.*,	28 H. C.
Jacob Kettner,	*Providence*,	15 Barclay St.
Edward Randall Knowles,	*Providence*,	151 Benefit St.
William Coffin Ladd,	*Brooklyn, N. Y.*,	25 H. C.
James Albert Lewis,	*Chicago, Ill.*,	34 H. C.

NAME.	RESIDENCE.	ROOM.
John Murray Marshall,	*Worcester, Mass.*,	28 H. C.
Franklin Garrett McKeever,	*Wilmington, Del.*,	43 U. H.
Charles Carney Mumford,	*Providence*,	37 Ring St.
Henry Clay Peepels,	*Pittsburg, Pa.*,	43 U. H.
Cornelius Welles Pendleton,	*Saybrook, Conn.*,	171 Congdon St.
William Llewellyn Phillips,	*Nashville, Tenn.*,	25 H. C.
Wilber Taylor Rice,	*South Ashfield, Mass.*,	15 H. C.
Henry Brayton Rose,	*Providence*,	22 U. H.
Horace Ward Sheldon,	*Yankton, Dak.*,	Pawtucket.
William Baird Silvey,	*Richmond, Va.*,	10 Congdon St.
James Davis Simmons,	*Providence*,	34 Benevolent St.
Willis Hermann Streeter,	*Attleboro', Mass.*,	4 H. C.
Edward Williams Taft,	*Pawtuxet*,	Pawtuxet.
John Alvah Taylor,	*Franklin Falls, N. H.*,	31 U. H.
Edwin Lajette Thurston,	*Providence*,	24 U. H.
Walter James Town,	*Providence*,	436 Pine St.
Arthur Middleton Webster,	*Providence*,	3 Walnut St.
Daniel Sumner Willson,	*Rochdale, Mass.*,	45 H. C.

Select Course.

Joseph Ayrault Bailey,	*Waterbury, Conn.*,	33 U. H.
Arthur Bateman Corthell,	*Bristol*,	Bristol.
Henry Albert Cranston,	*Providence*,	395 Benefit St.
Frederick Robert Mason,	*Pawtucket*.	Pawtucket.

FRESHMAN CLASS.

NAME.	RESIDENCE.	ROOM.
Ira Richard Allen,	*Fair Haven, Vt.,*	17 H. C.
Fred Clarence Angevine,	*Poultney, Vt.,*	30 U. H.
Charles Lincoln Bartlett,	*Le Roy, N. Y.,*	23 H. C.
Edward Clarence Bixby,	*Providence,*	43 Waverly St.
William Benezet Bogert,	*Providence,*	58 George St.
Simeon Borden, Jr.,	*Fall River, Mass.,*	5 H. C.
Benjamin Ellwood Bowerman,	*Portsmouth,*	37 U. H.
William Bray,	*Red Bank, N. J.,*	23 U. H.
Frank Fontelle Brigham,	*Westboro', Mass.,*	9 H. C.
Charles Stillman Caswell,	*East Douglas, Mass.,*	43 H. C.
Stewart Chaplin,	*Boston, Mass.,*	33 H. C.
Harry Clinton Clark,	*Providence,*	716 High St.
Edward Benjamin Cole,	*Boston, Mass.,*	52 George St.
Frank Howard Davis,	*Lynn, Mass.,*	12 H. C.
Asa Reed Dilts, Jr.,	*Raritan, N. J.,*	23 U. H.
Frank Adelbert Everett,	*Franklin, Mass.,*	156 Benefit St.
Adin Erastus Follett, Jr.,	*Valley Falls,*	Broad St.
Samuel Walter Foss,	*Portsmouth, N. H.,*	26 Waverly St.
Austin Powers Foster,	*S. Abington, Mass.,*	58 U. H.
William Allen Francis,	*Fall River, Mass.,*	107 Waterman St.
Newton Stone Fuller,	*Providence,*	48 Transit St.
Arthur Edward Gage,	*Portsmouth, N. H.,*	26 Waverly St.
Frederick Luther Gamage,	*Westboro', Mass.,*	30 U. H.
Olin Fisk Gleason,	*Attleboro' Falls, Mass.,*	290 Pine St.
Edward Brooke Goldsberry,	*Macon, Mo.,*	19 Angell St.
Albert Greene,	*Westerly,*	47 H. C.
John Stimson Greene,	*Providence,*	37 S. Angell St.
Edwin Atkins Grozier,	*Provincetown, Mass.,*	20 H. C.
Richmond Bullock Harris,	*Providence,*	90 Angell St.

NAME.	RESIDENCE.	ROOM.
Elmer Samuel Hosmer,	*Clinton, Mass.*,	48 H. C.
George Rice Hovey,	*Newton Centre, Mass.*,	79 William St.
Walter Ballou Jacobs,	*Providence*,	26 Peace St.
William Everett Jillson,	*Providence*,	76 Prospect St.
Henry Wild Jones,	*Bristol*,	4 H. C.
William Robert Keegan,	*Providence*, Prairie Ave. and Dudley St.	
William Turell Learned,	*Fall River, Mass.*,	37 H. C.
Robert Lincoln Lippitt,	*Providence*,	199 Hope St.
William Clawson Lott,	*Bridgeton, N. J.*,	1 H. C.
Ellwood Gassett Macomber,	*Portsmouth*,	261 Benefit St.
Herbert McIntosh,	*Doylestown (Bucks Co.), Pa.*,	58 U. H.
Winfield George Merrill,	*Lawrence, Mass.*,	39 H. C.
Osmon Cleander Baker Nason,	*Woonsocket*,	52 U. H.
William Richard Park,	*Plymouth, N. H.*,	290 Pine St.
Charles Hart Payne,	*Providence*,	21 Waterman St.
John Milton Payne,	*Pawtucket*,	Pawtucket.
Oscar Edward Perry,	*Rehoboth, Mass.*,	
Frederick Winthrop Phillips,	*Providence*,	331 Brood St.
William Henry Pomeroy,	*Springfield, Mass.*,	20 H. C.
James Richardson, Jr.,	*Providence*,	7 H. C.
Philip Richmond,	*Providence*,	46 Angell St.
John Augustine Sanford,	*Attleboro', Mass.*,	4 H. C.
Nathaniel Seabury,	*Providence*,	1 Reservoir Ave.
Edward Evans Seagrave,	*Providence*,	198 Hope St.
Francis Brayton Segar,	*Providence*,	37 H. C.
Frederick Eugene Shaw,	*Valley Falls*,	Valley Falls.
Thomas Jefferson Shiel,	*Philadelphia, Pa.*,	36 U. H.
James Hovey Spencer,	*Fair Haven, Vt.*,	17 H. C.
Arthur Hathaway Swift,	*New Bedford, Mass.*,	55 Waterman St.
George Spring Taft,	*Uxbridge, Mass.*,	38 Angell St.
Paul Edward Taylor,	*Providence*,	65 Charles Field St.
Herbert Edgar Thayer,	*Foxboro', Mass.*,	43 H. C.
Frederick Alexander Thomas,	*Pawtucket*,	Pawtucket.
Charles Rawson Thurston,	*Newport*,	26 H. C.
Henry Anthony Tillinghast,	*Providence*,	108 Angell St.
William Howe Tolman,	*Pawtucket*,	46 Prospect St.
Henry Anthony Townsend,	*Providence*,	103 Bowen St.
William Bullock Waterman,	*Providence*,	72 Meeting St.

Select Course.

NAME.	RESIDENCE.	ROOM.
Frank Porter Cobb,	*Wrentham, Mass.*,	25 Chestnut St.
Thomas George Hazard, Jr.,	*South Kingstown*,	32 H. C.
Elias John Hoch,	*Philadelphia, Pa.*,	19 Angell St.
Thomas Harbach Hulbert,	*Middletown, Conn.*,	7 H. C.
Harry Wintroad Kinney,	*Cincinnati, Ohio*,	19 Angell St.
Stephen Nicholson,	*Providence*,	17 Brownell St.
William Ellery Peckham,	*South Kingstown*,	32 H. C.

ABBREVIATIONS.

U. H.	University Hall.
H. C.	Hope College.

SUMMARY.

Graduate Students	14
Seniors	48
Juniors	59
Sophomores	48
Freshmen	74
Total	243

TIME AND CONDITIONS OF ADMISSION.

The regular examination for admission to the Freshman Class will take place on Thursday, Friday, and Saturday of Commencement week, June 19, 20, and 21, 1879, beginning at 8 o'clock, A. M., on Thursday. The candidates will assemble in No. 12, University Hall; and *they must be in attendance during the three days.*

There will be a second examination on Tuesday and Wednesday, September 16 and 17, 1879, beginning at 8 o'clock, A. M. Applicants must be in attendance both days.

Candidates for Advanced Standing will be subjected to a general examination in the studies already pursued by the class which they propose to enter.

No student can be admitted as a candidate for matriculation, unless he bring suitable testimonials of good moral character; and if he come from another college, or an academy, he must also present a certificate of good standing in the institution which he has left, and of regular dismission from it.

For the Course for the Degree of Bachelor of Arts.

Candidates for admission to the Freshman Class are examined in the following subjects: but real equivalents will be received for any of the Latin or Greek works mentioned:

(*Teachers in preparatory schools are requested not to employ in their classes the works assigned for use in College.*)

I. Greek. 1. Greek Grammar (Hadley's is preferred). 2. The Syntax and Greek Selections in Harkness's "First Greek Book," or an equivalent from any other Greek Reader. 3. The whole of Xenophon's Anabasis or *five* books of the Anabasis, and *two* books of Homer; the Odyssey is preferred. 4. The first *twenty* exercises of Arnold's Greek Prose Composition, or the first *twenty-five* exercises of Jones's Greek Prose Composition.

II. Latin. 5. Latin Grammar (Harkness's Grammar is preferred). 6. *Five* books of Caesar's Commentaries, or *three* books of Caesar and the *Catiline* of Sallust. 7. The *first six* books of Virgil's Aeneid, and thirty-five hundred lines of Ovid; as an equivalent for Ovid, either the *last six* books of the Aeneid, or the Bucolics and Georgics. 8. Seven Orations of Cicero, including the Manilian law. 9. Parts I and II of Harkness's Latin Composition.

III. Mathematics. 10. Arithmetic, including the Metric system of weights and measures. 11. Algebra in Equations of the First and of the Second Degree. 12. Plane Geometry.

IV. English. 13. English Grammar (Greene's is preferred). 14. The Analysis and Prosody of the First Act of Julius Caesar, in Craik's "English of Shakespeare." 15. Exercises in English Composition.

V. French. 16. Otto's French Grammar, Part I, including *the Reading lessons.*

In all these branches, candidates will be examined both orally and by writing.

PRELIMINARY EXAMINATIONS.

In certain of the Preparatory studies, candidates may be examined one year before the time at which they intend to apply for admission to the Freshman Class. This examination will be held in June only. The subjects for this earlier examination will be the following: —

(1.) Greek Grammar.
(2.) The Syntax and Greek selections in Harkness's "First Greek Book," or an equivalent from any other Greek Reader.
(3.) Three books of Xenophon's Anabasis.
(4.) Latin Grammar.
(5.) Caesar, and either Ovid or Cicero; or Caesar, and six books of the Aeneid.
(6.) Arithmetic.

For the Courses for the Degree of Bachelor of Philosophy.

There are at present three parallel courses of instruction of Candidates for the degree of Bachelor of Philosophy, each course extending through a period of four years. Two of these courses include classical studies; the third omits them, and substitutes a larger amount of scientific studies.

Candidates for admission to a course including *Greek*, are examined in all the Greek subjects specified on page 26. They are also examined in all the subjects in the list below (p. 28).

Candidates for admission to a course including *Latin*, are examined in all the Latin subjects specified on page 26. They are also

examined in all the subjects (except the Latin) in the list below (p. 28).

Candidates for admission to the course *omitting* classical studies, are examined in all the following subjects:

I. Latin.

1. *Five* books of Caesar, or its equivalent in Cicero or in Virgil.

II. Mathematics.

2. Arithmetic, including the Metric system of Weights and Measures. 3. Algebra in Equations of the First and of the Second Degree. 4. Plane Geometry.

III. English.

5. English Grammar (Greene's is preferred). 6. The Analysis and Prosody of the First Act of Julius Caesar, in Craik's "English of Shakespeare." 7. Exercises in English Composition.

IV. French.

8. Otto's French Grammar, Part I, including *the Reading lessons.*

In all these branches, candidates will be examined both orally and by writing.

SELECT COURSES.

Students who wish to pursue a Select Course, without entering as candidates for a degree, must be examined in such subjects as are preliminary to the studies that they desire to pursue in College.

SPECIMENS OF RECENT EXAMINATION PAPERS

FOR ADMISSION TO COLLEGE.

WRITTEN EXAMINATION IN LATIN.

I. LATIN GRAMMAR.

1. Give the stem-ending of nouns of the First, Second, Fourth, and Fifth declensions; also the two classes into which nouns of the Third declension are divided according to the stem-ending. Give the case-ending of the dative plural of nouns of the First declension, and of the Second declension, with the quantity marked, and explain the origin of the endings. Give the stem of each of the following nouns: *Ager*, *gener*, *vox*, *pax*, *grex*, *cervix*, *quies*, *dos*, *praes*, *homo*, *aes*, *arcus*, *acies*.

Give the gender, and the accusative and ablative singular of each of the following nouns: *Sitis*, *navis*, *securis*, *orbis*, *imber*, *rus*.

Give the ablative singular and accusative plural of the following adjectives: *Saluber*, *fortis*, *melior*, *pauper*, *uber*, *anceps*.

Give the stems of each of the following verbs: *Rogo*, *deleo*, *rapio*, *dirigo*, *moror*, *venor*, *patior*, *sum*, *sto*.

Mention the only two Latin verbs which retain the original ending of the present indicative.

Give the principal parts of *do* (to give), *juvo*, *pendo*, *eo*, *fero*, marking the quantity of each of the syllables in each of the parts. Inflect the present indicative of *possum*, and of *fero*, and the imperative of *eo*, and *fio*.

Translate the following sentences, and give the rule for the subjunctive in each: Necesse erit eas. Metuebam ut ires. Edo ut vivam. Laudant me quod venerim. Exspecta dum redeam.

Emo libros quos legam. Dubito an verum sit. Non is sum qui te deseram. Quis est quin fleat? Aedes quas emisset exornari jussit.

II. CAESAR AND SALLUST.

Translate either the two passages from Caesar, or one passage from Cæsar and the passage from Sallust.

1. From *Caesar:*

Huic imperat, quas possit adeat civitates horteturque, ut populi Romani fidem sequantur, seque celeriter eo venturum nuntiet.

Explain the use of the subjunctive in the verbs of this sentence.

2. From *Caesar:*

Ad haec Caesar respondit: Se magis consuetudine sua quam merito eorum civitatem conservaturum, si prius quam murum aries attigisset se dedidissent: sed deditionis nullam esse condicionem nisi armis traditis.

Write the words after *respondit* in the *direct discourse*. Give the genitive singular of *aries*, and the genitive plural of *civitatem*.

3. From *Sallust:*

Ad haec Q. Marcius respondit: "Si quid ab senatu petere vellent, ab armis discedant, Romam supplices proficiscantur: ea mansuetudine atque misericordia senatum populumque Romanum semper fuisse, ut nemo unquam ab eo frustra auxilium petiverit."

Write the words after *respondit* in the *direct discourse*.

III. VIRGIL AND OVID.

Translate two of the passages from Virgil, or one passage from Virgil, and the one from Ovid.

1. From *Virgil.*

Praeterea, si qua est Heleno prudentia, vati
Si qua fides, animum si veris implet Apollo,
Unum illud tibi, nate dea, proque omnibus unum,
Praedicam, et repetens iterumque iterumque monebo:

Junonis magnae primum prece numen adora ;
Junoni cane vota libens, dominamque potentem
Supplicibus supera donis.

Explain the construction of *vati*, *dea*, *prece*, and *donis*. Give the derivation and original meaning of *numen*, and the composition and original meaning of *supplicibus*, and the stem of the word.

Scan the first line, and give the rules for the quantity of the syllables.

2. From *Virgil*.

Tandem laetus ait : Di nostra incepta secundent,
Auguriumque suum ! Dabitur, Trojane, quod optas,
Munera nec sperno. Non vobis, rege Latino,
Divitis uber agri Trojaeve opulentia deerit.
Ipse modo Aeneas, nostri si tanta cupido est.
Si jungi hospitio properat, sociusque vocari,
Adveniat, vultus neve exhorrescat amicos.

Give the derivation of *augurium*, *secundent*, *socius ;* the construction of *uber* and *agri*. Scan the fourth line, and give the rules for the quantity of the syllables. Inflect the present indicative of *aio*.

3. From *Virgil*. *Bucolics*.

Hic, ubi densas
Agricolae stringunt frondes, hic, Moeri, canamus ;
Hic haedos depone ; tamen veniemus in urbem.
Aut si, nox pluviam ne colligat ante, veremur,
Cantantes licet usque — minus via laedit — eamus.
Cantantes ut eamus, ego hoc te fasce levabo.

Give composition of *agricolae*, and the meaning of its component parts. Give the principal parts of *stringunt*, *canamus*, and *laedit ;* the composition and the principal parts of *colligat*.

Scan the last line, and give the rules for the quantity of the syllables.

4. From *Ovid:*

Ver erat aeternum, placidique tepentibus auris
Mulcebant zephyri natos sine semine flores.
Mox etiam fruges tellus inarata ferebat:
Nec renovatus ager gravidis canebat aristis.
Flumina jam lactis, jam flumina nectaris ibant:
Flavaque de viridi stillabant ilice mella.

Scan first line, and give rules for the quantities. Give the derivation of *aeternus*, and show how the word is formed. Give the gender of *ver*, *lactis*, *ilice*, and *mella*.

IV. CICERO.

1. Tantum profeci tum, cum te a consulatu repuli, ut exsul potius tentare quam consul vexare rempublicam posses; atque ut id, quod esset a te scelerate susceptum, latrocinium potius quam bellum nominaretur.

Give the derivation of *exsul* and *consul*. Construction of the subjunctive in *posses* and *esset*. What is the composition of *posses*, and what would be its full, unabridged form?

2. Quid tandem impedit te? mosne majorum? at persaepe etiam privati in hac republica perniciosos cives morte multârunt: an leges, quae de civium Romanorum supplicio rogatae sunt? at nunquam in hac urbe ii, qui a republica defecerunt, civium jura tenuerunt.

Give the composition and original meaning of *impedit* and of *perniciosos;* the first meaning of *rogatae sunt*, and explain its connection with the meaning here.

V. LATIN COMPOSITION.

Translate into Latin: 1. It is my duty to say what I think. 2. It is often *asked* (*quaero*) whether eloquence is more useful than the knowledge of the civil law. 3. There is no one who *denies* (*nego*) that such citizens have often been *punished* (*punio*).

4. I said that I *hated* (*odi*) those wicked men, because they had *undertaken* (*suscipio*) *measures* (*consilium*) so pernicious, that they were worthy to be called the *enemies* (*hostes*) of their country. 5. He *waited* (*exspecto*) till the *decree* (*consilium*) was *recorded* (*perscribo*).

WRITTEN EXAMINATION IN GREEK.

I. Translate: —

Καὶ ὁ Λύκιος ἤλασέ τε καὶ ἰδὼν ἀπαγγέλλει, ὅτι φεύγουσιν ἀνὰ κράτος. σχεδὸν δ' ὅτε ταῦτα ἦν καὶ ἥλιος ἐδύετο. ἐνταῦθα δ' ἔστησαν οἱ Ἕλληνες καὶ θέμενοι τὰ ὅπλα ἀνεπαύοντο· καὶ ἅμα μὲν ἐθαύμαζον, ὅτι οὐδαμοῦ Κῦρος φαίνοιτο οὐδ' ἄλλος ἀπ' αὐτοῦ οὐδεὶς παρείη· οὐ γὰρ ᾔδεσαν αὐτὸν τεθνηκότα, ἀλλ' εἴκαζον ἢ διώκοντα οἴχεσθαι ἢ καταληφόμενόν τι προεληλακέναι· καὶ αὐτοὶ ἐβουλεύοντο, εἰ αὐτοῦ μείναντες τὰ σκευοφόρα ἐνταῦθα ἄγοιντο ἢ ἀπίοιεν ἐπὶ τὸ στρατόπεδον.

II. Translate: —

Τῇ δὲ τρίτῃ ἥκων ἔλεγεν, ὅτι διαπεπραγμένος ἥκοι παρὰ βασιλέως δοθῆναι αὐτῷ σώζειν τοὺς Ἕλληνας, καίπερ πάνυ πολλῶν ἀντιλεγόντων, ὡς οὐκ ἄξιον εἴη βασιλεῖ ἀφεῖναι τοὺς ἐφ' ἑαυτὸν στρατευσαμένους. τέλος δὲ εἶπε, καὶ νῦν ἔξεστιν ὑμῖν πιστὰ λαβεῖν παρ' ἡμῶν ἢ μὴν φιλίαν παρέξειν ὑμῖν τὴν χώραν καὶ ἀδόλως ἀπάξειν εἰς τὴν Ἑλλάδα ἀγοράν παρέχοντας.

III. Translate: —

Ἐπεὶ δὲ πιεζόμενοι οἱ Ἕλληνες ἐπεχείρησαν διώκειν, σχολῇ μὲν ἐπὶ τὸ ἄκρον ἀφικνοῦνται ὁπλῖται ὄντες, οἱ δὲ πολέμιοι ταχὺ ἀπεπήδων. πάλιν δὲ ὁπότε ἀπίοιεν πρὸς τὸ ἄλλο στράτευμα, ταὐτὰ ἔπασχον, καὶ ἐπὶ τοῦ δευτέρου γηλόφου ταὐτὰ ἐγίγνετο, ὥστε ἀπὸ τοῦ τρίτου γηλόφου ἔδοξεν αὐτοῖς μὴ κινεῖν τοὺς στρατιώτας, πρὶν ἀπὸ τῆς δεξιᾶς πλευρᾶς τοῦ πλαισίου ἀνήγαγον πελταστὰς πρὸς τὸ ὄρος.

IV. Give the construction of the following words: in extract II, *τρίτῃ*, *αὐτῷ*, *πολλῶν*, *φιλίαν*; in III, *σχολῇ*, *πλαισίου*, *πελταστὰς*.

Explain mood in extract I. in φεύγουσιν, φαίνοιτο, παρείη, and in II. ἥκοι, εἶῃ, ὀφεῖναι.

V. Decline ὁδός, βασιλεύς, ἡδύς. Compare ταχύς, ὀλίγος, ῥᾴδιος. Give the principal parts of δράω, τρέπω, τρέφω, βαίνω, and the synopsis of φιλέω in the present, active, and middle. Inflect λύω in the future indicative and optative of the middle voice.

VI. Translate : —

Ἐπειδὴ δὲ ἐδείπνησαν καὶ νὺξ ἐγένετο, οἱ μὲν ταχθέντες ᾤχοντο, καὶ καταλαμβάνουσι τὸ ὄρος, οἱ δὲ ἄλλοι αὐτοῦ ἀνεπαύοντο. οἱ δὲ πολέμιοι ἐπεὶ ἤσθοντο ἐχόμενον τὸ ὄρος, ἐγρηγόρεσαν καὶ ἔκαιον πυρὰ πολλὰ διὰ νυκτός. ἐπειδὴ δὲ ἡμέρα ἐγένετο, Νειρίσοφος μὲν θυσάμενος ἦγε κατὰ τὴν ὁδόν, οἱ δὲ τὸ ὄρος καταλαμβάντες κατὰ τὰ ἄκρα ἐπῆεσαν. τῶν δ' αὖ πολεμίων τὸ μὲν πολὺ ἔμενεν ἐπὶ τῇ ὑπερβολῇ τοῦ ὄρους, μέρος δ' αὐτῶν ἀπήντα τοῖς κατὰ τὰ ἄκρα.

VII. Give the composition or derivation of all the compounds and derivatives contained in the preceding extract. Give the principal parts of ἐγένετο, ταχθέντες, ἐγρηγόρεσαν, ἔκαιον. Inflect ἐπῆεσαν in the tense in which it is found.

VIII. Translate into Greek with the accents : — 1. He told me that the Persian had been found guilty of murder. 2. If the citizens should do what they ought, they would be prosperous. 3. Let us not think that all the citizens will serve us.

IX. Translate *one* of the two following extracts : —

Τὴν μὲν νύκτα οὕτω διήγαγον· ἅμα δὲ τῇ ἡμέρᾳ οἱ στρατηγοὶ εἰς τὸ ἐρυμνὸν χωρίον ἦγοῦντο· οἱ δὲ εἶπόντο ἀναλαβόντες τὰ ὅπλα καὶ τὰ σκεύη. πρὶν δὲ ἀρίστου ὥραν εἶναι ἀπετύφρευσαν ἤ ἡ εἴσοδος ἦν εἰς τὸ χωρίον, καὶ ἀπεσταύρωσαν ἅπαν, καταλιπόντες τρεῖς πύλας. καὶ πλοῖον ἐξ Ἡρακλείας ἦκεν ἄλφιτα ἄγον καὶ ἱερεῖα καὶ οἶνον. πρωὶ δ' ἀναστὰς Ξενοφῶν ἐθύετο ἐπεξόδια, καὶ γίγνεται τὰ ἱερὰ ἐπὶ τοῦ πρώτου ἱερείου.

Ὣς ἄρα φωνήσασ' ἡγήσατο Παλλὰς Ἀθήνη
καρπαλίμως· ὁ δ' ἔπειτα μετ' ἴχνια βαῖνε θεοῖο.
αὐτὰρ ἐπεὶ ῥ' ἐπὶ νῆα κατήλυθον ἠδὲ θάλασσαν,
εὗρον ἔπειτ' ἐπὶ θινὶ καρηκομόωντας ἑταίρους.
τοῖσι δὲ καὶ μετέειφ' ἱερὴ ἷς Τηλεμάχοιο·
Δεῦτε, φίλοι, ἴϊα φερώμεθα· πάντα γὰρ ἤδη
ἀθρῷ ἐνὶ μεγάρῳ· μήτηρ δ' ἐμοὶ οὔτι πέπυσται,
οὐδ' ἄλλαι δμωαί, μία δ' οἴη μῦθον ἄκουσεν.

WRITTEN EXAMINATION IN MATHEMATICS.

Arithmetic.

(1.) What is the value of $\left(\frac{\frac{1}{3}+\frac{3}{10}}{6\frac{1}{3}}+\frac{5\frac{5}{7}}{4\frac{4}{9}}\right)\div 11\times\frac{15\frac{2}{5}}{8\frac{1}{12}}$?

(2.) What will be the cost of digging and walling the cellar of a house 45 ft. by 24 ft. — the cellar being 6 ft. deep, and the wall $7\frac{1}{2}$ ft. high and $1\frac{1}{2}$ ft. thick — if the excavation costs 45 cents a cubic yard, and the masonry \$4.25 a perch?

(3.) A merchant bought cloth for 30 cents; what must the goods be marked so that he may throw off 25 per cent. from the marked price, and still make 25 per cent. profit?

(4.) What will be the cost of 3 kilares, 7 hectares, 6 deciares of land, at \$275.23 a hectare?

Algebra.

(5.) Reduce $\dfrac{\dfrac{c}{c-1}-1}{1-\dfrac{c}{c+1}}$ to a simple fraction.

(6.) Divide a into two parts, such that m times one shall be n times the other.

(7.) If 4 be subtracted from both terms of a fraction, the value will be $\frac{1}{3}$; and if 5 be added to both terms the value will be $\frac{5}{6}$; what is the fraction?

(8.) Given $\sqrt{x-9}+\sqrt{x+11}=10$, to find x.

(9.) Given $2x+\frac{3x-6}{2}=5x-\frac{3x-3}{x-5}$, to find x.

Geometry.

(10.) Prove that the sum of the exterior angles of any polygon is equal to four right angles.

(11.) Prove that through any three points not in the same line, one circumference may pass and only one.

(12.) If, in a right-angled triangle a line be drawn from the vertex of the right angle, perpendicular to the hypothenuse, state and prove the relation of the triangles thus formed, and the relation of the several lines.

WRITTEN EXAMINATION IN ENGLISH.

Casca. Are you not moved, when all the sway of earth . . (1)
Shakes, like a thing unfirm? O Cicero, ... (2)
I have seen tempests, when the scolding winds . . (3)
Have rived the knotty oaks; and I have seen . . (4)
The ambitious ocean swell and rage and foam . . (5)
To be elated with the threatening clouds: . . . (6)
But never till to-night, never till now, ... (7)
Did I go through a tempest dropping fire. . . . (8)
Either there is a civil strife in heaven, ... (9)
Or else the world, too saucy with the gods, . . . (10)
Incenses them to send destruction. . . . . (11)

I. *Analysis.* Analyze the sentence contained in lines (9), (10), (11).

What is the difference between the infinitives *swell* (5), and *to be elated* (6)?

Give modern equivalents of *unfirm* (2), and *rived* (4).

To what part of speech belongs *like* (2), *till* (7), *to*, in to-night (7), *else* (10)?

State the syntax of *thing* (2), *elated* (6), *did* (8), *tempest* (8), and *saucy* (10).

II. *Prosody.* Scan lines (5) and (7). What poetic feet are admissible in this metre?

III. *Composition.* Write a brief composition upon one of the following themes:

Genuine Politeness.

Living for Self.

The Attractions of Modesty.

WRITTEN EXAMINATION IN FRENCH.

A.

I. Conjugate *affirmatively* with the *pronouns:*

1. Imperfect indicative of *être.* 2. Present conditional of *avoir.*
3. Imperfect subjunctive of *manger.* 4. Imperfect indicative of *punir.*

II. Translate into French with accents:

1. The boys have beautiful gold watches.
2. Where are the animals you gave him?
3. How many white houses are there in this great city?
4. Is your sister hungry or thirsty?
5. Your friends and mine were at her uncle's.

III. Translate into English:

Le vieux chasseur Maurice avait dans sa chambre un sansonnet qu'il avait élevé, et qui avait appris à articuler quelques mots. Quand il disait par exemple: "Sansonnet, où es-tu?" l'oiseau répondait toujours: "Me voilà!"

IV. Questions on the above passage:

1. Give the infinitive of *avait*, *appris*, *disait*.
2. Give the grammatical construction of *qu'*, *Sansonnet*, *Me*.
3. Give masculine and feminine; singular and plural of *vieux*.

B.

I. Conjugate *negatively* with *pronouns:*

1. Present indicative of *payer*. 2. Future indicative of *rendre*.
2. Imperfect indicative of *manger*. 4. Compound imperfect of *finir*.

II. Translate into French with *accents:*

1. Are you the doctor? I am.
2. One will have also some white paper and fine ink.
3. Who is the gentleman that was at your house yesterday?
4. Your father's houses are larger than your uncle's.
5. The long white teeth of the elephant furnish us ivory.

III. Translate into English:

La providence a si sagement arrangé toute chose, que chaque climat fournit aux habitants ce qui leur est le plus indispensable. Dans les contrées polaires il fait si froid, qu'il ne peut y croître ni fruit, ni céréales, ni légumes.

IV. Questions on the above passage:

1. Give grammatical construction of *si*, *ce*, *leur*, *froid*.
2. Give principal parts of *fournit*, *fait*, *peut*, *croître*.

C.

I. Conjugate *interrogatively* with *pronouns:*

1. Compound imperfect indicative of *se tromper*. 2. Present indicative of *espérer*.
3. Present indicative *passive* of *aimer*. 4. Imperfect indicative of *placer*.

II. Translate into French with *accents:*

1. Did you think of your father and mother during your absence?
2. Your children should have loved each other.
3. I should give you some money, if you were more industrious.
4. Whoever shall not obey the laws, shall be punished.
5. Why do you rejoice at the misfortunes of others?

III. Translate into English:

Un jour qu'il était sorti, ils profitèrent de son absence et s'avancèrent tant qu'ils tombèrent à terre. Ils n'avaient pas encore de plumes aux ailes; ainsi ils ne purent se sauver. Un gros chat, qui passait par-là, les vit; il n'avait pas dîné, il les saisit, et les mangea sur le champ.

IV. Questions on the above passage:

1. Give grammatical construction of *jour*, *encore*, *plumes*, *chat*, *qui*.

COURSES OF INSTRUCTION.

FIRST: FOR THE DEGREE OF BACHELOR OF ARTS.

FRESHMAN CLASS.

First Half-Year.

1. *Greek.* (*a*) Felton's Greek Historians. — (*b*) Arnold's Greek Prose Composition. — (*c*) Smith's History of Greece. *Five hours a week.*

2. *Latin.* (*a*) Livy (Lincoln's Selections), Books I. II. XXI. — (*b*) Harkness's Latin Composition, Part III. — (*c*) History of Rome. *Five hours a week.*

3. *Mathematics.* Algebra, from Quadratic Equations. *Five hours a week.*

4. *French.* (*a*) Otto's Grammar, Part II. — (*b*) The advanced Division reads, in addition, *Petite Histoire du Peuple Français, par Lacombe.* *Two hours a week.*

Second Half-Year.

1. *Greek.* (*a*) Homer's Iliad. — (*b*) Arnold's Greek Prose Composition completed. *Five hours a week.*

2. *Latin.* (*a*) Cicero de Senectute. — (*b*) De Amicitia. — (*c*) Exercises in Latin Composition. *Five hours a week.*

3. *Mathematics.* (*a*) Olney's Geometry. — (*b*) Olney's Advanced Course in Geometry, Solid and Spherical. — (*c*) Plane and Spherical Trigonometry. *Five hours a week.*

4. *French.* (*a*) Racine's *Athalie.* *Two hours a week.*

SOPHOMORE CLASS.

First Half-Year.

1. *Greek.* Demosthenes. — Public Orations. *Three hours a week.*

2. *Latin.* (*a*) Horace (Lincoln's Edition). — (*b*) Exercises in Latin Composition. *Two hours a week.*

3. *Mathematics.* (*a*) Olney's General Geometry and Calculus. — (*b*) Lectures on Spherical Astronomy. *Five hours a week.*

4. *French.* (*a*) Corneille's *Horace*.— (*b*) The advanced Division reads, in addition, Corneille's *Cid*, *Cinna*, and *Polyeucte*. *Three hours a week.*

5. *Rhetoric.* (*a*) Lectures, *two hours a week.* Text-Book, Hepburn's Manual of Rhetoric. — (*b*) Exercises in Elocution, *one hour a week.* Murdoch and Russell's Vocal Culture. — (*c*) Essays. Principal books of Reference, Campbell's Philosophy of Rhetoric, Whately's Elements of Rhetoric, Kames' Elements of Criticism, Angus's Hand-Book of the English Tongue, and Channing's Lectures on Rhetoric and Oratory.

Second Half-Year.

1. *Greek.* (*a*) Sophocles. — (*b*) Lectures. *Two hours a week.*

2. *Latin.* (*a*) Tacitus. — (*b*) Exercises in Latin Composition. *Three hours a week.*

3. *Mechanics.* (*a*) Peck's Mechanics. *Five hours a week.*

4. *Rhetoric.* (*a*) Lectures, *Two hours a week.* Text-Book, Hepburn's Manual of Rhetoric. — (*b*) Exercise in Elocution with Declamations, *One hour a week.* Text-Book, Murdoch and Russell's Vocal Culture. Principal books of reference in Elocution, McIlvaine's Elocution, Hullah's Speaking Voice, Bacon's Manual of Gesture. — (*c*) Essays.

Also one of the following elective studies:

French. (*a*) Comedies of Moilère. — (*b*) Lectures. *Three hours a week.*

or

German. (*a*) Whitney's Grammar. — (*b*) Joynes' Reader.— (*c*) The advanced Division reads, in addition, *Der zerbrochene Krug*, by Zschokke. *Three hours a week.*

JUNIOR CLASS.

First Half-Year.

1. *Rhetoric.* (*a*) Keane's Hand-Book of the English Language. Lectures on the History of English Literature, with Readings from authors. *Three hours a week.* — (*b*) Exercises in Elocution. — (*c*) Essays and Speeches. *Saturdays.* Principal authors referred to: (1) In Language, Müller, Whitney, Farrar, Marsh and Craik. (2) In Literature, Morley, Taine, Arnold, Angus, Bascom and the "Clarendon Press" Series of English Classics.

2. *Astronomy.* Loomis's Astronomy with Lectures. *Three hours a week.*

3. *Chemistry.* Lectures. The lectures are illustrated by experiments, and colored charts, and black-board exercises. Books of reference: Fownes's Chemistry, Barker's Chemistry, Roscoe's Chemistry. *Three hours a week.*

4. *Physics.* (*a*) Lectures, together with experiments, also (*b*) Recitations, both written and oral. Books of reference: Atkinson's Ganot, Deschanel's Natural Philosophy, Silliman's Physics. *Five hours a week.*

One of the following elective courses:

German. (*a*) Whitney's Grammar continued.— (*b*) Joynes's Reader, continued. — (*c*) The advanced Division reads, in addition, *Doctor Wespe* by Benedix. *Two hours a week.*

French.

Latin. (*a*) Horace's Ars Poetica — (*b*) Selections from the Epistles. *Two hours a week.*

Greek. *Two hours a week.*

Second Half-Year.

1. *Logic.* (*a*) Text-Book, Schuyler's Logic. Principal authors referred to in Logic: Sir W. Hamilton, De Morgan, Thomas, Mill, Mansel, Bowen and Fowler. *Three hours a week.*

2. *Physiology.* Lectures. Books of reference: Hutchison's Physiology and Hygiene; Dalton's and Marshall's Treatises on Physiology. *Five hours a week.*

3. *Rhetoric.* (*a*) Chaucer, Spenser or Shakespeare. *Two hours a week.*— (*b*) Exercises in Elocution. — (*c*) Original speeches, *Saturdays.*

A sufficient number of the following elective courses to make up *six hours a week:*

Latin. Juvenal, Terence, Latin Composition, Lectures.

Greek. Plato.

French.

German. (*a*) Schiller's *Jungfrau von Orleans.* — (*b*) The advanced Division reads, in addition, Schiller's *Maria Stuart*, or *Wilhelm Tell.*

Zoölogy. Lectures, and laboratory work. Books of Reference, Macalister's Zoölogy of the Invertebrates, Macalister's Zoölogy of the Vertebrates. Huxley's Anatomy of the Invertebrates. Huxley's Anatomy of the Vertebrates. Packard's Outlines of Comparative Embryology.

Political Economy. Lectures. Mill's Political Economy, Fawcett's Manual, Perry's Political Economy, Walker's Science of Wealth.

Analytical Chemistry. Laboratory practice.

Advanced Mechanics.

Botany. Lectures and field excursions.

SENIOR CLASS.

First Half-Year.

1. *Intellectual Philosophy.* (*a*) Lectures. — (*b*) Essays by the class. Sir William Hamilton's Lectures on Metaphysics. Mansel's Metaphysics. Wayland's Intellectual Philosophy. Porter's Human Intellect. Ueberweg's History of Philosophy. *Five hours a week.*

2. *History.* Mediaeval History, from the fall of the Western Empire to the Reformation. — (*a*) by lectures. — (*b*) by abstracts presented by the class. Guizot's European Civilization, Duruy's *Histoire du Moyen Age*, Gibbon's Roman Empire, Hallam's Middle Ages, Milman's Latin Christianity, Bryce's Holy Roman Empire, Kitchin's France, Stubbs's English Constitutional History. *Six hours a week.*

A sufficient number of the following elective courses to make up *five hours a week:*

Lectures on the History of Philosophy.

Lectures on Roman Law.

Latin. Lucretius, with Lectures.

Greek. Demosthenes, Oration on the Crown.

French.

German. Lessing's *Minna von Barnhelm.*

Analytical Chemistry. Laboratory practice.

Civil Engineering.

Geology. Lectures. — Books of reference: Dana's New Text-Book of Geology; Dana's Manual of Geology. Le Conte's Elements of Geology. Nicholson's Ancient Life-History of the Earth.

Second Half-Year.

1. *Moral Philosophy.* (*a*) Lectures, with (*b*) essays by the class. Wayland's Moral Science. Alexander's Moral Science. Kant's Metaphysics of Ethics (Semple's translation). Calderwood's Hand-Book of Moral Philosophy. References to various authors. *Five hours a week.*

Natural Theology, and Evidences of Christianity, by Lectures.

2. *History.* (*a*) Modern History, from the Reformation to the French Revolution. — (*b*) Colonial History. — (*c*) Constitutional History of the United States; by lectures and abstracts. Duruy's *Histoire des Temps Modernes*, Hallam's Constitutional History of England, Stephen's Lectures on the History of France, Woolsey's International Law, Farrar's Manual of the Constitution, The Federalist. *Five hours a week.*

3. *International Law.*

A sufficient number of the following elective courses to make up *six hours a week:*

Latin.

Greek.

French.

German. Goethe's *Iphigenie auf Tauris.*

Political Economy.

History of Architecture. Lectures.

Agricultural Zoölogy. (Students on State Scholarships are required to take this course.)

Botany.

Civil Engineering.

SECOND: FOR THE DEGREE OF BACHELOR OF PHILOSOPHY.

The following are the outlines of the courses; but they may be subjected to such modifications as are hereafter found advisable:

Course including an Ancient Language.

FRESHMAN CLASS.

First Half-Year.

1. Greek or Latin, *five hours a week.*
2. Algebra, *five hours a week.*
3. French, *two hours a week.*
4. Civil Engineering, *five hours a week.*

Second Half-Year.

1. Greek or Latin, *five hours a week.*
2. Geometry and Trigonometry, *five hours a week.*
3. French, *two hours a week.*
4. Civil Engineering, *five hours a week.*

SOPHOMORE CLASS.

First Half-Year.

The following required studies:

1. Greek or Latin, *two or three hours a week.*
2. Analytical Geometry and Calculus, *five hours a week.*
3. Rhetoric and Elocution, *three hours a week.*

A sufficient number of the following elective courses to make *six hours a week.*

4. French,
   Civil Engineering.

Course not including an Ancient Language.

FRESHMAN CLASS.

First Half-Year.

1. Algebra, *five hours a week.*
2. French, *two hours a week.*
3. Chemistry, *three hours a week.*
4. Civil Engineering, *five hours a week.*

Second Half-Year.

1. Geometry and Trigonometry, *five hours a week.*
2. French, *two hours a week.*
3. Analytical Chemistry, *five hours a week.*
4. Civil Engineering, *five hours a week.*

SOPHOMORE CLASS.

First Half-Year.

The following required studies:

1. Analytical Geometry and Calculus, *five hours a week.*
2. Rhetoric and Elocution, *three hours a week.*

A sufficient number of the following elective courses to make up *eight hours a week:*

French,
Analytical Chemistry,
Civil Engineering.

Second Half-Year.

The following required studies:

1. Greek or Latin, *three or two hours a week.*
2. Mechanics, *five hours a week.*
3. Rhetoric and Elocution, *three hours a week.*

A sufficient number of the following elective courses to make *six hours a week.*

French,
German,
Civil Engineering.

Course including an Ancient Language.

JUNIOR CLASS.

First Half-Year.

1. Physics, *five hours a week.*
2. English Literature, *four hours a week.*
3. Astronomy, *three hours a week.*
4. Chemistry, *three hours a week.*

A sufficient number of the following elective courses to make up *two hours a week:*

French,
German,
Latin,
Greek.

Second Half-Year.

The following required studies:

1. Physiology, *five hours a week.*
2. Logic, *three hours a week.*
3. English Language, *two hours a week.*

A sufficient number of the following elective courses to make up *six hours a week:*

Zoölogy,
Political Economy,
Latin,
Greek,
French,
German,
Analytical Chemistry,
Advanced Mechanics,
Botany.

Second Half-Year.

The following required studies:

1. Mechanics, *five hours a week.*
2. Rhetoric and Elocution, *three hours a week.*

A sufficient number of the following elective courses to make up *eight hours a week:*

French or German,
Analytical Chemistry,
Civil Engineering.

Course not including an Ancient Language.

JUNIOR CLASS.

First Half-Year.

The following required studies:

1. Physics, *five hours a week.*
2. English Literature, *four hours a week.*
3. Astronomy, *three hours a week.*

A sufficient number of the following elective courses to make up *four hours a week:*

French,
German,
Analytical Chemistry,
Civil Engineering.

Second Half-Year.

The following required studies:

1. Physiology, *five hours a week.*
2. English Language, *two hours a week.*
3. Logic, *three hours a week.*

A sufficient number of the following elective courses to make up *five hours a week:*

Zoölogy,
Political Economy,
French,
German,
Analytical Chemistry,
Advanced Mechanics,
Botany.

Course including an Ancient Language.

SENIOR CLASS.

First Half-Year.

The following required studies:

1. Intellectual Philosophy, *five hours a week.*
2. History, *six hours a week.*

A sufficient number of the following elective courses to make up *five hours a week* :

Lectures on History of Philosophy,
Lectures on Roman Law,
French,
German,
Latin,
Greek,
Geology,
Analytical Chemistry,
Civil Engineering.

Second Half-Year.

The following required studies:

1. Moral Philosophy and Natural Theology, *five hours a week.*
2. History and International Law, *five hours a week.*

A sufficient number of the following elective courses to make up *six hours a week :*

Latin,
Greek,
French,
German,
Political Economy,
Analytical Chemistry,
Advanced Mechanics,
Botany,
Agricultural Zoölogy.

Course not including an Ancient Language.

SENIOR CLASS.

First Half-Year.

The following required studies:

1. Intellectual Philosophy, *five hours a week.*
2. History, *six hours a week.*

A sufficient number of the following elective courses to make up *five hours a week :*

Lectures on the History of Philosophy,
Lectures on Roman Law,
French,
German,
Geology,
Analytical Chemistry,
Civil Engineering.

Second Half-Year.

The following required studies:

1. Moral Philosophy and Natural Theology, *five hours a week.*
2. History and International Law, *five hours a week.*

A sufficient number of the following elective courses to make up *six hours a week.*

French,
German,
Political Economy,
Analytical Chemistry,
Advanced Mechanics,
Experimental Physics,
Zoölogy,
Botany,
Agricultural Zoölogy.

DEPARTMENTS OF PRACTICAL SCIENCE.

Departments of Practical Science have been established in the University for the benefit of students who wish to prepare themselves for such pursuits as require especially the knowledge of mathematical and of physical science, and their applications to industrial arts.

In these departments provision has also been made for courses of instruction in "such branches of learning as are related to Agriculture and the Mechanic Arts." This provision has been made in accordance with an "Act of Congress granting lands for the establishing of Agricultural Colleges," and with "Resolutions of the General Assembly of the State of Rhode Island, accepting these lands, and assigning the same to Brown University." Students who enter only for these studies either in full or in part, are subject to the same conditions of admission as for any select course; and when they have duly pursued such studies, they will be entitled to a certificate stating the time of their University residence, and the amount of their acquisitions. They may, however, pursue these studies in connection with "the regular scientific and classical studies of the University," and when they have so pursued them as to fulfill the requirements for the Degree of Bachelor of Arts or of Bachelor of Philosophy, they will be entitled to these degrees.

I. CHEMISTRY APPLIED TO THE ARTS.

The Chemical Laboratory is open to students (except on Saturdays) from 8.30 A. M. to 2.30 P. M.

It is the design of this department to teach students Analytical chemistry, and then to direct their studies to the practical applications of chemistry. Attention is given to Metallurgy,

Pharmacy, Medical chemistry, Agricultural chemistry, and the application of chemistry to manufacturing processes.

The course is not confined to undergraduates; other persons — if prepared to pursue the study to advantage — are admitted to the Laboratory. But a knowledge of the general principles of Chemistry is absolutely necessary to profitable study in this department.

The text-books used are:

Appleton's Qualitative Chemical Analysis, and Appleton's Quantitative Chemical Analysis, Appleton's Chemical Reactions, Thorpe's Inorganic Chemistry, Thorpe's Chemical Problems.

The following works of reference are always in the Laboratory and always accessible to students:

Fresenius's Qualitative Chemical Analysis, Fresenius's Quantitative Chemical Analysis, Watts's Dictionary of Chemistry, Storer's Dictionary of Chemical Solubilities.

II. CIVIL ENGINEERING.

The regular course in this department occupies three years, but a longer or shorter course may be pursued, according to the wants or abilities of students. Those who are unable to pursue a full course, will find the studies so arranged that the knowledge and practice acquired in only a partial course will be practical and available. Ample provision will be made for the instruction of any who desire a more extended course than is here indicated, in Engineering and in Higher Mathematics.

The following is the order of study for the regular course:

First Year. Use of Mathematical instruments, including Line drawing, Pen shading, Graphical construction of Plane problems; Free-hand drawing and shading; use of Mathematical tables; Trigonometry, and its application to the measurement of areas; Plane surveying, including the theory and adjustment of instruments, Field practice, Plotting surveys.

Second Year. Descriptive Geometry. Shades and Shadows and linear Perspective, and Isometrical Drawing.

Third Year. General Geometry, Differential and Integral Calculus. Theory of structure, embracing the construction of foundations, Stone and Brick masonry; and detailed drawings of the same; Calculation and geometrical representation of the strain on trusses and girders; Drawing of Plans, Profiles, Elevations, and Sections.

Construction of machinery and bridges, and drawings of the same; Strength of materials used in construction; Estimation of resistance of Friction and rigidity; and Hydraulics, embracing the structure and use of hydraulic machines, the investigation of the laws which govern the flow of water from reservoirs and the flow of water in rivers, canal and conduit pipes, and water used as a motor.

Fourth Year. Weisbach's Mechanics, or Mahan's Civil Engineering.

To pursue this course to the best advantage, the following mathematical studies taught in the University, should be pursued, in connection with those above mentioned, viz. Algebra, Geometry, Plane and Spherical Trigonometry, Analytical Geometry, and Calculus.

Students desiring admission to this course are subjected to an examination on the same amount of Mathematics as is required of candidates entering for a degree.

III. PHYSICS.

The laboratory of the Department of Physics is open to a limited number of students, who show special aptitude for this study, and are desirous of familiarizing themselves with the construction and use of physical apparatus and with the means of investigation.

The experimental resources of this department have been increased this year by the addition, among other apparatus, of the following:

A Siemen's Dynamo-apparatus and lamp for the Electric light.

A Brayton Ready-motor of about two horse-power.

A Phonograph, the gift of Charles S. Bradley, LL. D.

A Rheostat, the gift of William F. Channing, M. D.

IV. BOTANY.

Instruction in Botany is given by means of lectures, in which free use is made of the blackboard and diagrams. The course embraces the necessary morphological and physiological subjects, and is supplemented by practical class-work in which each student has the use of a dissecting microscope. Great stress is laid upon the importance of drawing from nature, and students are taught to make illustrative sketches.

At the proper season excursions are made, under the guidance of the Instructor, to neighboring points of botanical interest. At such times students are shown how best to collect and preserve specimens.

V. ZOÖLOGY AND GEOLOGY.

Zoölogy, with especial reference to Palæontology, is taught by lectures, laboratory work (forming a course of comparative anatomy), and by dredging and collecting excursions in Narragansett Bay and near the city, with especial reference to the local fauna.

Instruction in Geology is given by means of lectures, and models, laboratory work, and field excursions, with special reference to the geology, structural and economic, of Rhode Island.

VI. AGRICULTURE.

The course of Instruction in Agriculture includes the courses in the preparatory branches, Chemistry and Physics, Botany, Physiology, Zoölogy, and Comparative Anatomy. It also includes the special lectures on Agriculture. These include the study of soils, and Applied Economic Zoölogy. The course of instruction is illustrated by specimens from the Museum of Natural History, and by field excursions. It also includes practical instruction in obtaining and preserving specimens, and in Taxidermy.

MUSEUM OF NATURAL HISTORY AND ETHNOLOGY

IN RHODE ISLAND HALL.

The Museum is under the care of Professor John W. P. Jenks, who has been appointed by the Corporation to be its Curator. The collections it now contains, as classified and arranged by Professor Jenks, are as follows:

1.	In Zoölogy, including skeletons for Comparative Anatomy,	
	Quadrupeds	125
	Birds (500 mounted)	5,000
	Reptiles and Fishes	600
	Insects	10,000
	Crustaceans	1,000
	Worms	500
	Mollusks	13,000
	Echinoderms	100
	Corals and Hydroids	130
	Sponges	25
2.	In Mineralogy, specimens	9,350
3.	In Geology and Pâlæontology, specimens	4,500
4.	Botany (miscellaneous collection)	500
5.	The Herbarium presented by W. Whitman Bailey, B. P. (This collection represents about 500 species.) The number of specimens is	1,500
6.	Indian Implements and Relics, specimens	950
7.	Implements and curiosities of other uncivilized peoples	500
8.	Coins and Medals	2,300

LIBRARY.

The University Library is now arranged in the new Library building.

The building was formally opened with public services on the 16th of February, 1878, and the work of removing the library, then immediately beginning, was accomplished without serious interruption in the use of it.

This structure — erected by the munificence of a life-long friend and benefactor of the University, John Carter Brown, on a lot which he purchased for the purpose and gave to the University — is built in the most substantial manner, of the most enduring materials, and in strict compliance with the requirements of a fire-proof structure.

A marble bust of Mr. Brown, the gift of Mrs. Sophia Augusta Brown, stands just north of the rotunda in the Library.

The University Library consists of *fifty thousand* well-bound and carefully selected volumes. In its early history it received additions in the form of donations and legacies made by friends of the College, both in this country and in England. During the Presidency of Dr. Wayland, a permanent Library fund of twenty-five thousand dollars was raised by subscription. Since that time, the income of this fund has been expended, under the direction of a joint Committee of six persons, appointed annually by the Corporation and the Faculty of the University.

Upon the Library table may be found the most important American and English periodicals, and also periodicals in the German and French languages pertaining to science, history, literature, bibliography, philology, and the classics.

In term-time, the Library is open from 10 A. M. to 3 P. M. on every week day except Saturday; on Saturdays it is open from 10 A. M. to 12 M. During vacations it is open on Saturdays.

The following are some of the General Regulations, relating to the use of the Library, and adopted by the Corporation, June 20, 1878.

1. It is the desire of the Corporation that so far as may be practicable, the books of the Library shall be consulted and used at the tables, without being taken from the Library building.

. . . . . .

3. The members of the Corporation, the President, Professors, Instructors, Tutors, Registrar, resident graduates, and all donors to the funds of the University to the amount of five hundred dollars, residing in the City of Providence, together with any others to whom the Corporation or the Library Committee may grant the privilege, shall be entitled to the use of the Library without expense. The undergraduates shall be entitled to the use of the Library, and shall be charged therefor the sum of five dollars per annum.

4. The privilege of reading or of consulting books in the Library, during Library hours, shall be extended to college graduates generally; to clergymen of every denomination; and to all other persons on whom the Corporation or Library Committee may from time to time confer it.

5. Not more than three volumes at one time shall be allowed to the undergraduates, who may keep the same two weeks, with the privilege of renewal at the discretion of the Librarian.

. . . . . .

7. Borrowers can take books only after they have been charged to them by the Librarian or his Assistant; and if they send for books, they must sign and date an order.

8. For every book not returned at the time specified, the borrower shall pay a fine of ten cents a day until it shall be returned.

9. No person shall lend to any one a library book, or let it go out of his personal custody; and the borrower alone shall be responsible for the book while it is charged to him.

10. No borrower shall write or mark in a book belonging to the Library, or turn down the leaves of the same.

. . . . . .

12. Undergraduates who leave Providence for an absence of more than one week, must first return all borrowed books.

13. All the books, whether in possession of undergraduates, resident graduates, officers of instruction, members of the Corporation, or others, shall be returned to the Library on or before the Wednesday preceding Commencement. Any person who may fail to comply with this requirement, shall pay one dollar for each volume of which he retains possession.

N. B.— Degrees are not granted until the candidate has exhibited to the Registrar a certificate that he has paid all fines incurred, and returned in good order, or replaced, every book that he has borrowed; or, in default thereof, has deposited with the Librarian the full value of it in money.

PUBLIC WORSHIP.

The exercises of every day commence with Prayers in the College Chapel. All Students are also required to attend public worship on Sunday. For this purpose, each one reports to the President, at the beginning of the term, the church which he will attend.

COLLECTION OF PORTRAITS.

Through the liberality of the friends of the College, a Collection of Portraits has been presented to it, and deposited in the new Picture gallery in Rhode Island Hall. It consists of portraits of benefactors of the University, of some of its former officers, and of men whose names are conspicuous in the earlier or the more recent annals of Rhode Island.

GYMNASIUM.

The Corporation makes an appropriation each year for the rent of a Gymnasium Hall, most of the apparatus in which belongs to the University. Students have access to this Hall, with the use of all the apparatus in it, on payment of two dollars a year to the keeper of the Gymnasium.

SEMI-ANNUAL EXAMINATIONS.

Examinations of all the classes are held at the close of each half-year.

Some examinations are conducted by writing, some are oral, while in certain cases the same class is subjected to both tests. The maximum mark assigned is 20. If, upon examination in a given study, a student receives a mark which is less than 10, he fails to "pass" in that study, and must prepare himself for a subsequent examination.

Committees of Examinations have been appointed for the several departments as follows:

1. Greek.

Rev. Thacher Thayer, D. D. Merrick Lyon, LL. D.
Rev. Heman Lincoln, D. D. Edward H. Cutler, A. M.
Rev. John B. G. Pidge, A. B.

2. Latin.

Rev. John C. Stockbridge, D. D. Horatio N. Slater, Jr., A. M.
Lucius O. Rockwood, A. M. Frederick W. Tilton, A. M.
Charles B. Goff, A. M. Rev. C. H. Wheeler, A. M.

3. German.

Rev. Alvah Hovey, D. D. Samuel W. Peckham, A. M.
Stephen H. Arnold, Esq. Rev. Carl W. Ernst, A. M.
G. Radeke, M. D.

4. French.

William Goddard, A. M. Edward T. Caswell, M. D.
Edwin M. Snow, M. D. Howard M. Rice, A. M.
David W. Hoyt, A. M.

5. Rhetoric and English Literature.

Rev. Adoniram J. Gordon, D. D. Rev. J. G. Vose, D. D.
Alexander Farnum, A. M. Rev. S. D. Phelps, D. D.
J. Carter Brown Woods, LL. B.

6. Physiology.

Edwin M. Snow, M. D. J. C. Greenough, A. M.
S. S. Keene, M. D. Oliver C. Wiggin, M. D.
L. W. Russell, Esq.

7. Physics.

Hon. Rowland Hazard, A. M. Prof. George I. Chace, LL. D.
William A. Mowry, A. M. Hon. Samuel Powel.
Arnold B. Chace, A. B. Prof. John Peirce, A. M.
George H. Corliss, A. M.

8. History and Political Economy.

Hon. Charles S. Bradley, LL. D. Prof. William Gammell, LL. D.
Hon. Samuel G. Arnold, LL. D. Hon. John R. Bartlett, A. M.
Rev. Augustus Woodbury, A. M.

9. Intellectual and Moral Philosophy.

Rev. Alva Woods, D. D. Rowland G. Hazard, LL. D.
Rt. Rev. Thomas M. Clark, D. D. Prof. George I. Chace, LL. D.
Rev. Daniel Leach, D. D.

10. Mathematics and Astronomy.

Zachariah Allen, LL. D. Charles P. Robinson, A. M.
J. Herbert Shedd, Esq. Edward Pearce, Jr., A. M.
Emory Lyon, M. D. Hon. A. E. Burnside, A. M.

11. Chemistry.

Arnold B. Chace, A. B. Marshall Woods, M. D.
Prof. John Peirce, A. M. Amasa M. Eaton, LL. B.

12. Logic.

Rev. A. H. Granger, D. D. Hon. Thomas Durfee, LL. D.
William W. Douglas, LL. B. Rev. Elias H. Johnson, A. M.

EXPENSES.

The term bills are paid strictly in advance, at the commencement of each half year.

If a student is matriculated as a candidate for a degree, he is charged a fee of $5.

The College expenses for the year are as follows: —

Tuition, $50.00 per half year		$100 00
Room rent, $10.00 per half year		20 00
Use of Library, $2.50 per half year		5 00
Registrar's salary, $2.00 per half year		4 00
Public fuel, Servants' hire, Printing,	Charged at cost, but average about	22 00
		$151 00

To meritorious students, needing assistance, a reduction of from 30 to 50 per cent. of the charge for tuition may be made.

If a student occupy a room alone, his rent and servants' hire are doubled.

It has been customary to charge the graduating class the expense of its own Commencement exercises. For the Commencement in 1878 the charge was $18.00 for each member of the class.

Board is not furnished in College. The Registrar keeps a list of the names of families in the city by whom board is furnished to students. The following are the usual rates:

Board at from $3.00 to $5.00 per week. (The larger proportion of students pay at present under $4.00 per week for board.) Board, with furnished rooms, from $5.00 to $7.00 per week.

The above estimate for tuition does not include the fees for instruction in Chemistry applied to the Arts.

The expenses of a student who takes a course of study in the Chemical Laboratory, of two hours daily, are (for each half year) as follows:

Tuition	$16 66
Gas, chemicals, etc.	18 34
Breakage (varying with the student's care), about	3 00
	$38 00

Students who take courses of four hours or of six hours daily, pay respectively double or treble the above amounts.

PECUNIARY AID TO STUDENTS.

Scholarships.

Among the various forms of aid offered to students, there are about one hundred scholarships.

There are *sixty-two* Scholarships of One Thousand Dollars each, the income of which is given, under the direction of a committee appointed by the Corporation, to meritorious students who may need pecuniary assistance; *but a scholarship is forfeited if the candidate incurs college censure, or fails to secure at least seventy-five per cent. of the maximum mark.*

The Nicholas Brown Scholarships. Eleven, founded by a bequest made by Nicholas Brown.

The University Scholarships. Four, from College funds appropriated by the Corporation to this use.

The President's Scholarship. Founded by Barnas Sears, when President of the College.

Alva Woods Scholarships. Five, founded by Alva Woods.

James H. Duncan Scholarship. Founded by James H. Duncan.

Isaac Davis Scholarship. Founded by Isaac Davis.

Arnold Whipple Scholarship. Founded in memory of Arnold Whipple, by Mrs. Arnold Whipple.

Ephraim Wheaton Scholarship. Founded by James Wheaton.

Joseph Brown Scholarship. Founded by Mrs. E. B. Rogers.

Gardner Colby Scholarship. Founded by Gardner Colby.

James Y. Smith Scholarship. Founded by James Y. Smith.

S. S. Bradford Scholarships. Two, founded by S. S. Bradford.

Frances R. Arnold Scholarship. Founded by Mrs. Frances R. Arnold.

Cornelia E. Green Scholarship. Founded by Mrs. Cornelia E. Green.

Crocker Scholarship. Founded by Robert H. Ives and Thomas P. Ives.

Clark Scholarship. Founded by Robert H. Ives and Thomas P. Ives.

Albert Day Scholarship. Founded by Albert Day.

Henry P. Kent Scholarship. Founded by Henry P. Kent.

Romeo Elton Scholarship. Founded by Romeo Elton.

Anne E. Waters Scholarships. Five, founded by Mrs. Anne E. Waters.

L. Fairbrother Scholarship. Founded by Mrs. L. Fairbrother.

George Lawton Scholarship. Founded by George Lawton.

John P. Crozer Scholarship. Founded by Mrs. Margaret Bucknell.

Horatio N. Slater Scholarship. Founded by Horatio N. Slater.

Earl P. Mason Scholarship. Founded by Earl P. Mason.

Newport Scholarship. Founded by William Sanford Rogers.

Alexis Caswell Scholarship. Founded by Alexis Caswell.

G. K. and H. A. Pevear Scholarship. Founded by G. K. and H. A. Pevear.

Joseph C. Hartshorn Scholarship. Founded by Joseph C. Hartshorn.

Rogers High School Scholarship. Founded by William Sanford Rogers.

James Wheaton Scholarship. Founded by James Wheaton.

Charles Thurber Scholarship. Founded by Charles Thurber.

Pardon Miller Scholarship. Founded by Mrs. Ann E. Miller.

Hezekiah S. Chase Scholarship. Founded by Hezekiah S. Chase.

William Bucknell Scholarship. Founded by William Bucknell.

Austin Merrick Scholarship. Founded by Mrs. Olive E. Merrick.

Jackson Scholarships. Three, founded by Henry Jackson.

Mumford Scholarship. Founded by Mrs. Louisa D. Mumford.

Besides the above Scholarships, there are others, the assignment of which is made subject to special provisions. These are as follows:

The Carpenter Scholarships. Two, founded by Thomas Carpenter and Lydia Carpenter, the income of which is given in two premiums of sixty dollars each, at the *end of the Senior year*, to the two members of the Senior class, who, "already on Scholarships, shall, in the judgment of the Faculty, unite in the highest degree the three most important elements of success in life, ability, character, and attainment."

For the year 1877–78 the Carpenter Scholarships were awarded to

WALTER GARDNER WEBSTER

AND

ISAAC OSCAR WINSLOW.

The Bartlett Scholarship. Founded by Mrs. Elizabeth Slater Bartlett, by a donation of four thousand dollars, the income of

which is to be "devoted to the support of one or more students needing pecuniary aid, and giving promise by studious aims and by character and scholarship of rising to distinction and usefulness."

The Glover Scholarship. Founded by a donation of five thousand dollars, by Henry R. Glover, "in memory of his father Samuel Glover, a graduate of the College, of the class of 1808, and of his brother Samuel Glover, Jr., of the class of 1839." The assignment of this scholarship is made upon the basis of high character and collegiate attainments.

The Scholarship of the class of 1838, of thirty-eight hundred dollars. Founded by members of the class of 1838, and also assigned upon the basis of high character and scholarship.

Scholarships of the Department of Agriculture. By Resolutions of the General Assembly of the State of Rhode Island, the national grant "for the benefit of Agriculture and the Mechanic Arts," was given to Brown University; and the fund of fifty thousand dollars, which has accrued from this grant, is by agreement on the part of the University devoted to the education "of scholars, each at the rate of one hundred dollars per annum, to the extent of the entire annual income." Appointments to these scholarships are made, on the nomination of the General Assembly, by the Governor and Secretary of State, in conjunction with the President of the University.

Aid Fund.

A fund of something over eight thousand dollars has been given to the University by two of its friends, the income of which is applied to the assistance, either by loan or by gift, of deserving young men of limited means.

PREMIUMS.

I. For Excellence in Preparatory Studies.

The President's Premiums. These are derived from the income of a donation made by the late Rev. Francis Wayland, D. D., while President of the University. They are awarded to those members of the Freshman class, candidates for the degree of Bachelor of Arts, or of Bachelor of Philosophy, who are found, *upon a special examination*, to have attained the highest excellence in the classical studies preparatory to admission to College. They are fixed by statute as follows:

A First Premium of fifteen dollars, and a second of ten dollars, for excellence in the Greek language.

A First Premium of fifteen dollars, and a second of ten dollars, for excellence in the Latin language.

The competitors are examined in the classical studies required as preparatory for admission to the College.

This year (1878), the award of these Premiums was as follows:

Greek.

The First Premium to William Everett Jillson, instructed by Edward H. Cutler, A. M., in the Providence High School.

Two Second Premiums: one to George Rice Hovey, instructed by Francis A. Waterhouse, A. M., in the High School, Newton, Mass.; —

The other to William Howe Tolman, instructed by Merrick Lyon, LL. D., in the University Grammar School.

Latin.

The First Premium to William Everett Jillson, instructed by Edward H. Cutler, A. M., in the Providence High School.

The Second Premium to WALTER BALLOU JACOBS, instructed by Edward H. Cutler, A. M., in the Providence High School; —

An additional Second Premium to PHILIP RICHMOND, instructed by Rev. Charles H. Wheeler, A. M., Providence.

Mathematics.

The Hartshorn Premiums. JOSEPH C. HARTSHORN, A. M., a graduate of the class of 1841, has made a donation to the University, the income of which is appropriated to *three premiums*, viz.:

A First Premium of thirty dollars,
A Second Premium of twenty dollars,
A Third Premium of ten dollars.

These are awarded to those members of the Freshman class, who are found upon examination to have excelled in the preparatory mathematical studies.

This year (1878), these Premiums were awarded as follows:

The first premium to NEWTON STONE FULLER, instructed by Benjamin I. Wheeler, A. M., in the Providence High School.

The second premium to ARTHUR EDWARD GAGE, instructed by Rev. Sylvester Dixon, A. M., in the New Hampshire Conference Seminary, Tilton, N. H.

The third premium to WILLIAM EVERETT JILLSON, instructed by Benjamin I. Wheeler, A. M., in the Providence High School.

II. For Excellence in College Studies.

Carpenter Prizes for Elocution. These are: A First Prize of *sixty* dollars. A Second Prize of *thirty-six* dollars. A Third Prize of *twenty-four* dollars.

They are derived from the income of a fund established by THOMAS CARPENTER. They are awarded annually to the three members of the Sophomore Class to whom shall be assigned respectively the first, second, and third rank of excellence, in speaking. The assignment is made by a committee appointed for the

purpose and after trial at a public exhibition given on the Monday before commencement.

The competitors must be members of the Sophomore Class; they may declaim pieces in prose or verse, selected from English authors, but their selection must be approved by the Professor of Rhetoric; they must enter their names with this Professor not later than on the tenth day before the exhibition.

The Committee of Award will consist of five members and will be formed as follows: the Professor or Instructor in Elocution, who will be the Chairman, two persons elected by the Corporation, also two elected by the Sophomore Class, during the first term of the year, it being understood that no one who is or has been a member of that class is eligible.

The committee of Award for 1878 consisted of the Professor of Rhetoric, Hon. Walter S. Burges, A. M., Hon. Rowland Hazard, A. M., Hon. James Tillinghast, A. B., Rev. Henry I. Cushman.

They awarded the Prizes as follows:

The First, to William Herbert Perry Faunce.
The Second, to James Austin, Jr.
The Third, to Walter Sydney Meader.

The Howell Premium. This fund, amounting to one thousand dollars, was founded by the late Gamaliel Lyman Dwight. The income is given, at the *close of the first half of the Junior year*, to the student "who having a good record of deportment, has the highest rank in Mathematics and Natural Philosophy."

For the year 1876–7 this Premium was awarded (February, 1878) to

Wallace Peter Dick.

The Dunn Premium. This fund, amounting to something over eight hundred dollars, was founded by pupils and friends of the late Prof. Robinson P. Dunn, D. D., the income to be given at *the end of the Junior year*, to the student having the highest standing in rhetorical studies.

For the year 1877–8 this premium was awarded to

EDWARD ERNEST ATKINSON.

Class of 1873 Fund. This fund, amounting to five hundred dollars, was presented to the University by THE CLASS OF 1873, on the condition that its income should be devoted to constituting a prize for an Essay. The prize is to be annually offered for competition to members of the Senior Class, and at such time and in such manner as the Faculty shall determine. The conditions of the competition will be announced hereafter.

The subject assigned in January, 1878, was

"*John Stuart Mill's Statement of the Utilitarian Theory.*"

On Commencement Day, June 19, 1878, the President announced the prize as assigned to the essay written by

CHARLES JASON STAPLES.

COMMENCEMENT HONORS IN THE CLASS OF 1878.

The Valedictory Addresses, WILLIAM GARDNER WEBSTER.
The Salutatory Oration, WILLIAM GAMMELL, JR.
The Classical Oration, CHARLES EDWIN BENNETT.
The Philosophical Oration, ISAAC OSCAR WINSLOW.

DEGREES CONFERRED IN 1878.

THE DEGREE OF BACHELOR OF ARTS,

Upon the following Members of the Class of 1878.

Robert Alexander.
William Porter Bartlett.
Charles Edwin Bennett.
Charles Edwin Bigelow.
Moses Brown Lockwood Bradford.
Caleb Ambrose Burbank.
Robert Willard Burbank.
Gideon Albert Burgess.
Charles Frederick Butterworth.
Richard Case.
Walter Gardner Chandler.
Harold Chessman Childs.
Willis Gaylord Clarke.
Abel Chalkley Collins.
Albert Nelson Dary.
Alfred Nelson Fairbank.
Harry Ormsbee Farnum.
William Gammell, Jr.
Clarence Miles Godding.
George Goodwin.
Frank Harris.
Walter Sumner Hayward.
Nathaniel Hibbard.
Jules Adolphe Hobigand.
George William Hopkins.
Albert Pierce Hoyt.
Elton Hoyt.
Charles Archelaus Huse.
Edward Channing Larned.
Harry Frederick Lippitt.
John Hale Mason.
Stephen Olney Metcalf.
William Brown Martin Miller.
Oliver Buchanan Munroe.
Stephen Westcott Nickerson.
Wallace Prescott Palmer.
Charles Henry Pendleton.
Charles LeRoy Pulcifer.
James Rea.
Cornelius Samuel Savage.
Joseph Herbert Shattuck.
William Lloyd Slade.
Charles Jason Staples.
William Mauran Stockbridge.
William Howard Sweetland.
John Cyrus Thoms.
Lewis Hamilton Torrey.
Daniel Arnold Wade.
John Grover Ward.
Walter Gardner Webster.
George Franklin Weston.
Bennett Rollin Wheeler.
Freeman Tupper Whitman.
William Bowers Winn.
Isaac Oscar Winslow.
Augustus Wood.

Also upon

James Fletcher Blackinton, of the class of 1847.

THE DEGREE OF BACHELOR OF PHILOSOPHY,

Upon the following Members of the Class of 1878.

Winthrop Carver Durfee.
William Ely.
Charles Taylor Howard.
Crawford Allen Nightingale.
Frederick Albert Nightingale.
Walter Benjamin Swarts.

THE DEGREE OF MASTER OF ARTS,

UPON

ORVILLE BARTON SEAGRAVE, Class of 1863.
ALBERT GARDNER FISHER, Class of 1870.
AMOS TURNER ASHTON, Class of 1872.
GEORGE EDWARD CARPENTER, } Class of 1873.
ARVIN AUGUSTUS SMITH, }

And upon the following members of the class of 1875.

BENJAMIN BAKER.
DAVID SHERMAN BAKER, JR.
CHRISTOPHER FRANKLIN BARKER.
ALBERT DAVIS BOSSON.
CHARLES EDWIN BURLINGAME.
WILLIAM PENDLETON CHIPMAN.
THOMAS STANTIAL GLADDING.
NELSON BISHOP JONES, JR.
GEORGE FREDERICK KEENE.
HENRY CLIFFORD KNIGHT.
ELISHA FREDERICK LANPHEAR.
ALVIN FOWLER PEASE.
FRANK MASON PURINTON.
CHARLES ABRAHAM REESE.
BARNARD COOK TAYLOR.
ALLEN HUNT WEEDEN.
BENJAMIN IDE WHEELER.

THE DEGREE OF MASTER OF ARTS,

UPON

REV. GEORGE EDWIN HORR, of Worcester, Mass.

THE DEGREE OF DOCTOR OF LAWS,

UPON

HON. SAMUEL GREENE ARNOLD, A. M., class of 1841, of Middletown, R. I.

ALEXANDER LYMAN HOLLEY, B. P., class of 1853, of Troy, N. Y.

THE DEGREE OF DOCTOR OF DIVINITY,

UPON

REV. ADONIRAM JUDSON GORDON, A. M., of the class of 1860, of Boston, Mass.

REV. CHARLES STANFORD, of Camberwell (London), England.

CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

BROWN UNIVERSITY

1879-80.

PROVIDENCE:
E. L. FREEMAN & CO., PRINTERS.
1879.

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1879-80.

1879	Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
July.	..	..	1	2	3	4	5
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	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	31	..	..
Aug.	..	..	..	..	..	1	2
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Sep.	..	1	2	3	4	5	6
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Oct.	..	..	..	1	2	3	4
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Nov.	..	..	..	..	..	..	1
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1880	Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
Jan.	..	..	..	..	1	2	3
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Mar.	..	1	2	3	4	5	6
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1880	Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
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Sep.	..	..	..	1	2	3	4
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Oct.	..	..	..	..	..	1	2
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Nov.	..	1	2	3	4	5	6
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Dec.	..	..	..	1	2	3	4
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	19	20	21	22	23	24	25
	26	27	28	29	30	31	..

CALENDAR FOR 1879-80.

1879.

September 3, *Wednesday.* Annual Meeting of the Corporation.

September 17, *Wednesday.* **Academic year begins** (third Wednesday in September).

November 27, *Thursday.* Thanksgiving Day. (No College exercises on Thursday, Friday, and Saturday of Thanksgiving week.)

Christmas Holidays, from evening of Tuesday, December 23, 1879, to evening of Saturday, January 3, 1880.

1880.

January 21, 22, 23, *Wednesday, Thursday, Friday.* Semi-Annual Examinations of College classes.

January 26, *Monday.* **Second half-year begins.**

Spring Recess, Saturday, March 27, to Monday evening April 5.

April 17, *Saturday.* Junior Exhibition.

May 20, 21, 22, *Thursday, Friday, Saturday.* Examination of Senior Class.

May 30, *Sunday.* Decoration day. No College exercises on Saturday, May 29.

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June 8, 9, 10,	*Tuesday, Wednesday, Thursday.* Semi-Annual Examinations of College Classes.
June 11,	*Friday.* Class Day.
June 13,	*Sunday.* Baccalaureate Sermon.
June 14,	*Monday.* Sophomore Prize Declamation.
June 15,	*Tuesday.* Annual Meeting of the Phi Beta Kappa Society, 9.30 A. M.
June 15,	*Tuesday.* Annual Alumni Meeting in Manning Hall, at 4 P. M.
June 16,	*Wednesday.* **One hundred and twelfth annual Commencement,** (third Wednesday in June).
June 17,	*Thursday.* Meeting of the Corporation.
June 17, 18, 19,	*Thursday, Friday, Saturday.* Examination for admission to College. Candidates assemble at No. 12 University Hall, at 8 o'clock, A. M. They must be in attendance all three days.
	Summer Vacation.
September 1,	*Wednesday.* Annual Meeting of the Corporation in Rhode Island Hall (on the first Wednesday in September).
September 14,	*Tuesday.* Examination of Delinquents in College Studies.
September 14, 15,	*Tuesday, Wednesday.* Examinations for admission.
September 15,	*Wednesday.* **Academic year begins.**

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Rev. SAMUEL L. CALDWELL, D. D.

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TREASURER.

ADVISORY COMMITTEE OF THE ALUMNI.

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FRANCIS W. BIRD, A. M.
SAMUEL S. GREENE, LL. D.
ALBERT HARKNESS, PH. D., LL. D.
CHARLES B. GOFF, A. M.
EDWARD T. CASWELL, M. D.
FRANCIS A. GASKILL, A. B.

MEMBERS OF THE FACULTY,

AND

OTHER OFFICERS.

Rev. EZEKIEL G. ROBINSON, D. D., LL. D.,

President,

Professor of Moral and Intellectual Philosophy.

JOHN L. LINCOLN, LL. D.,

Professor of the Latin Language and Literature.

SAMUEL S. GREENE, LL. D.,

Professor of Mathematics and Astronomy.

ALBERT HARKNESS, Ph. D., LL. D.,

Professor of the Greek Language and Literature.

Rev. J. LEWIS DIMAN, D. D.,

Professor of History and Political Economy.

BENJAMIN F. CLARKE, A. M.,

Professor of Mathematics and Civil Engineering.

JOHN H. APPLETON, A. M.

Newport-Rogers Professor of Chemistry.

T. WHITING BANCROFT, A. M.,

Professor of Rhetoric and English Literature, and Instructor in Elocution.

ELI W. BLAKE, Jr., A. M.,

Hazard Professor of Physics.

*Elton Professor of Natural Theology.**

JOHN W. P. JENKS, A. M.,

Professor of Agricultural Zoölogy and Curator of the Museum.

CHARLES W. PARSONS, M. D.,

Professor of Physiology.

ALONZO WILLIAMS, A. M.,

Professor of Modern Languages.

WILLIAM C. POLAND, A. M.,

Assistant Professor of Latin and Greek.

ALPHEUS S. PACKARD, JR., M. D., PH. D.,

Professor of Zoölogy and Geology.

NATHANIEL F. DAVIS, A. M.,

Assistant Professor of Mathematics.

W. WHITMAN BAILEY, B. P.,

Instructor in Botany.

BENJAMIN I. WHEELER, A. M.,

Instructor in Latin and Greek.

EDWIN E. CALDER,

Assistant Instructor in Analytical Chemistry.

REUBEN A. GUILD, LL. D.,

Librarian.

FRANK A. FARNUM, A. B.,

Assistant Librarian.

F. WAYLAND DOUGLAS, A. M.,

Registrar.

* At present, instruction in Natural Theology is given by the PRESIDENT of the University.

GRADUATE STUDENTS.

Benjamin Baker, A. M.,	174 Broadway.
Alexander Bevan, A. M.,	104 John St.
Caleb Ambrose Burbank, A. B.,	10 Pitman St.
Robert Willard Burbank, A. B.,	10 Pitman St.
Stephen Ostrom Edwards, A. B.,	79 Williams St
Edwin Pickett Farnham, A. B.,	123 Lockwood St.
William Eaton Foster, A. M.,	49 Chestnut St.
Edward Pike Greene, A. B.,	15 Parade St.
John Hale Mason, A. B.,	Cor. Cooke and Manning Sts.
George Metcalf, Jr., A. M.,	24 Bowen St.
Christopher Francis Parkhurst, A. B.,	174 Broadway.
Albion True Smith, A. M.,	Cor. Front and East Sts.
Isaac Hinckley Southwick, A. B.,	92 Prospect St.
Walter Gardner Webster, A. B.,	108 Clifford St.
George Joseph West, LL. B.,	419 Atwell's Ave.
Isaac Oscar Winslow, A. B.,	399 Pine St.

UNDERGRADUATES.

SENIOR CLASS.

NAME.	RESIDENCE.	ROOM.
Augustus Levi Abbott,	*Alton, Ill.*,	Hope, 34.
Charles Robert Adams,	*Holyoke, Mass.*,	Hope, 11.
Walter Foster Angell,	*Atlanta, Ill.*,	33 Benefit St.
Wilberforce Ewing Archibald,	*Middletown, Vt.*,	Hope, 30.

NAME.	RESIDENCE.	ROOM.
James Austin, Jr.,	*Woonsocket,*	University, 19.
Edmund Neville Bennett,	*Taunton, Mass.,*	Hope, 24.
John Taggard Blodgett,	*Refugio, Texas,*	Hope, 42.
Henry Jackson Boyce,	*Providence,*	122 Knight St.
Gibbs Braislin,	*Burlington, N. J.,*	Hope, 18.
Charles Edwin Burdette,	*Peoria, Ill.,*	Hope, 3.
John Nathan Butman,	*Providence,*	138 Thurber's Ave.
Zechariah Chafee, Jr.,	*Providence,*	5 Cooke St.
Prescott Orloff Clarke,	*Providence,*	66 Keene St.
John Loring Crane,	*East Braintree, Mass.,*	439 Benefit St.
James Wallace Darrow,	*East Chatham, N. Y.,*	Hope, 11.
Walter Edward Delabarre,	*Blackstone, Mass.,*	Hope, 44.
Henry Dunster, Jr.,	*Providence,*	369 Fountain St.
Samuel Slater Durfee,	*Providence,*	49 Benefit St.
Richard Bartlett Esten,	*S. Attleboro', Mass.,*	Hope, 38.
William Herbert Perry Faunce,	*Lynn, Mass,*	Hope, 12.
Frank Eustace Fitz,	*Chelsea, Mass.,*	Slater, 5.
George Stephen Goodspeed,	*Columbia, S. C.,*	Slater, 14.
Augustus Arabert Greene,	*Providence,*	31 Greenwich St.
William Hale, Jr.,	*South Berwick, Me.,*	University, 35.
Fred Mason Hammett,	*Newport,*	Hope, 22.
Henry Gano Hardy,	*Malden, Mass.,*	Hope, 27.
Arthur Whitney Howe,	*Philadelphia, Pa.,*	Slater, 12.
Charles William Jencks, Jr.,	*Providence,*	16 Elmwood Ave.
Herbert Ide Keen,	*Philadelphia, Pa.,*	Slater, 3.
John Power Knowles, Jr.,	*Providence,*	9 Charles Field St.
Isaac Albert Lamson,	*Hamilton, Mass.,*	Hope, 16.
William Hoyle Lane,	*Central Falls,*	University, 47.
James Granger Lincoln,	*Providence,*	58 Angell St.
Philip Augustus Mathewson,	*Providence,*	Hope, 19.
Walter Sydney Meader,	*Gonic, N. H.,*	University, 48.
Donald Littlefield Morrill,	*Auburn, Me.,*	274 Benefit St.
Samuel Hanson Ordway,	*Providence,*	272 Benefit St.
John Holden Ormsbee,	*Providence,*	Slater, 12.
Edgar Perry,	*Rehoboth, Mass.,*	University, 56.
James Tobey Pyke,	*Providence,*	250 Angell St.

NAME	RESIDENCE.	ROOM.
William Francis Richardson,	*Andover, Mass.,*	Hope, 31.
J. Lee Richmond,	*Geneva, Ohio,*	Hope, 12.
George William Rigler,	*Suffield, Conn.,*	University, 51.
Sidney White Rivenburg,	*Clifford, Pa.,*	University, 49.
David Foster Slade,	*Somerset, Mass.,*	Hope, 6.
Samuel Watson Smith, Jr.,	*Cincinnati, Ohio,*	51 Waterman St.
Wesley Lorenzo Smith,	*Malden, Mass.,*	Hope, 30.
James Clay Starkweather,	*Pawtucket,*	Hope, 17.
George West Stone,	*Waymart, Pa.,*	University, 49.
John Sutherland,	*Eau Claire, Wis.,*	15 Willow St.
Fred Clay Tenney,	*Orange, Mass.,*	Hope, 42.
Benjamin Franklin Thurston,	*Newport,*	Hope, 26.
Frank Luscombe Tinkham,	*Taunton, Mass.,*	12 Carpenter St.
William Ramsay Trotter,	*Bristol,*	Hope, 2.
George Miller Tustin,	*Bloomsburg, Pa.,*	University, 53.
Frederick Johnson Clegg Walton,	*Lynn, Mass.,*	Hope, 30
Paul Waterman,	*Providence,*	72 Meeting St.
William Henry Winslow,	*Larone, Maine,*	University, 48.

JUNIOR CLASS.

NAME.	RESIDENCE.	ROOM.
Charles Francis Adams,	*New York, N. Y.,*	Hope, 40.
William Cotter Baker,	*Wickford,*	University, 34.
Benjamin Barker, Jr.,	*Tiverton,*	270 Benefit St.
George Fremont Bean,	*Warner, N. H.,*	University, 40.
George Bickford Brigham,	*Westboro', Mass.,*	Hope, 9.
Morgan Brooks,	*Boston, Mass.,*	Slater, 1.
Percy Shelley Burbank,	*Providence,*	43 Howell St.
Friend Preston Carpenter,	*Providence,*	University, 44.
Walter Orestes Cartwright,	*Wakefield, Mass.,*	University, 44.
William Sheafe Chase,	*Providence,*	96 Mathewson St.
Charles Walter Connell,	*Fall River, Mass.,*	62 George St.
Howard Potter Cornell,	*Providence,*	165 Angell St.
Samuel Winslow Culver,	*Providence,*	156 Point St.
William Frederick Denfeld,	*Westboro', Mass.,*	Hope, 36.
Frank Herbert Gifford,	*New Bedford, Mass.,*	21 George St.
Paul Coffin Gifford,	*Olneyville,*	University, 45.
John Russell Gladding,	*Providence,*	43 Chestnut St.
Frederic Hayes,	*Providence,*	344 Benefit St.
Frederick Rowland Hazard,	*Peacedale,*	45 William St.
Alfred Howland Hood,	*Somerset, Mass.,*	University, 31.
Charles Evans Hughes,	*Brooklyn, N. Y.,*	Hope, 4.
Samuel Lafayette Irons,	*Harmony,*	University, 46.

NAME.	RESIDENCE.	ROOM.
Howard Clifton Jewett,	*Haverhill, Mass.*,	Hope, 28.
Jacob Kettner,	*Providence*,	15 Barclay St.
Edward Randall Knowles,	*Providence*,	24 Angell St
William Coffin Ladd,	*Brooklyn, N. Y.*,	Hope, 25.
John Murray Marshall,	*Worcester, Mass.*,	Hope, 28.
Franklin Garrett McKeever,	*Wilmington, Del.*,	University, 47.
Charles Carney Mumford,	*Providence*,	37 Ring St.
William Ellery Peckham,	*South Kingstown*,	Hope, 32.
Henry Clay Peepels,	*Pittsburg, Pa.*,	University, 54.
Cornelius Welles Pendleton,	*Stonington, Conn.*,	Hope, 4.
William Llewellyn Phillips,	*Nashville, Tenn.*,	Hope, 25.
Horace Wadleigh Rice,	*Westboro', Mass.*,	Hope, 36.
Wilber Taylor Rice,	*South Ashfield, Mass.*,	Hope, 15.
Henry Brayton Rose,	*Providence*,	University, 22.
Horace Ward Sheldon,	*Yankton, Dak.*,	Pawtucket.
William Baird Silvey,	*Richmond, Va.*,	10 Congdon St.
James Davis Simmons,	*Providence*,	34 Benevolent St.
Willis Hermann Streeter,	*Attleboro', Mass.*	Hope, 4.
Edward Williams Taft,	*Pawtuxet*,	Pawtuxet.
John Alvah Taylor,	*Franklin Falls, N. H.*,	University, 31.
Edwin Lajette Thurston,	*Providence*,	Hope, 40.
Walter James Town,	*Providence*,	436 Pine St.
Arthur Middleton Webster,	*Providence*,	3 Walnut St.
Daniel Sumner Wilson,	*Rochdale, Mass.*,	Hope, 45.

Select Course.

Joseph Ayrault Bailey,	*Waterbury, Conn.*,	University, 33.
Arthur Bateman Corthell,	*Bristol*,	Hope, 2.
Henry Albert Cranston,	*Providence*,	395 Benefit St.
Frederick Robert Mason,	*Pawtucket*,	Pawtucket.

SOPHOMORE CLASS.

NAME.	RESIDENCE.	ROOM.
Ira Richard Allen,	*Fair Haven, Vt.*,	Slater, 4.
Fred Clarence Angevine,	*Poultney, Vt.*,	University, 30.
Charles Lincoln Bartlett,	*Le Roy, N. Y.*,	Hope, 23.
Edward Clarence Bixby,	*Providence*,	43 Waverly St.
William Benezet Bogert,	*Providence*,	58 George St.
Simeon Borden, Jr.,	*Fall River, Mass.*,	Hope, 5.
Benjamin Ellwood Bowerman,	*Portsmouth*,	University, 37.
William Bray,	*Red Bank, N. J.*,	University, 23.
Frank Fontelle Brigham,	*Westboro', Mass.*,	Hope, 9.
Charles Stillman Caswell,	*East Douglas, Mass.*,	University, 58.
Stewart Chaplin,	*Boston, Mass.*,	Hope, 33.
Harry Clinton Clark,	*Providence*,	716 High St.
Edward Benjamin Cole,	*Boston, Mass.*,	52 George St.
Frank Howard Davis,	*Lynn, Mass.*,	Hope, 18.
Asa Reed Dilts, Jr.,	*Raritan, N. J.*,	University, 23.
Daniel James Ellison,	*Brooklyn, N. Y.*,	University, 41.
Frank Adelbert Everett,	*Franklin, Mass.*,	Hope, 43.
Samuel Walter Foss,	*Portsmouth, N. H.*,	26 Waverly St.
Austin Powers Foster,	*S. Abington, Mass.*,	University, 58.
William Allen Francis,	*Fall River, Mass.*,	Hope, 21.
Newton Stone Fuller,	*Providence*,	48 Transit St.
Arthur Edward Gage,	*Portsmouth, N. H.*,	26 Waverly St.

NAME.	RESIDENCE.	ROOM.
Fred Luther Gamage,	*Westboro', Mass.*,	University, 30.
Olin Fisk Gleason,	*Attleboro' Falls, Mass.*,	290 Pine St.
Albert Greene,	*Westerly*,	Hope, 47.
John Stimson Greene,	*Providence*,	Hope, 39.
Elmer Samuel Hosmer,	*Clinton, Mass.*,	Hope, 48.
George Rice Hovey,	*Newton Centre, Mass.*,	Hope, 18.
Walter Ballou Jacobs,	*Providence*,	26 Peace St.
William Everett Jillson,	*Providence*,	76 Prospect St.
Julius Arthur Johnson,	*Beaver Dam, Wis.*,	15 Willow St.
Harry Wild Jones,	*Shelburne Falls, Mass.*,	Hope, 7.
William Robert Keegan,	*Providence*,	Prairie Ave. and Dudley St.
Arthur Thomas Lawton,	*Jewett City, Conn.*,	University, 41.
William Turell Learned,	*Fall River, Mass.*,	Hope, 37.
William Clawson Lott,	*Bridgeton, N. J.*,	Slater, 15.
Herbert McIntosh,	*Doylestown, Pa.*,	Hope, 29.
Winfield George Merrill,	*Lawrence, Mass.*,	Slater, 3.
Osmon Cleander Baker Nason,	*Woonsocket*,	University, 19.
William Richard Park,	*Plymouth, N. H.*,	Hope, 35.
Charles Hart Payne,	*Providence*,	Slater, 16.
John Milton Payne,	*Pawtucket*,	Pawtucket.
Frederick Winthrop Phillips,	*Providence*,	331 Broad St.
William Henry Pomeroy,	*Springfield, Mass.*,	Hope, 39.
James Richardson, Jr.,	*Providence*,	Slater, 9.
John Augustine Sanford,	*Attleboro', Mass.*,	Hope, 17.
Nathaniel Seabury,	*Providence*,	Slater, 16.
Frederick Eugene Shaw,	*Valley Falls*,	Valley Falls.
Thomas Jefferson Shiel,	*Philadelphia, Pa.*,	Hope, 46.
James Hovey Spencer,	*Fair Haven, Vt.*,	Hope, 39.
George Spring Taft,	*Uxbridge, Mass.*,	Hope, 8.
Paul Edward Taylor,	*Providence*,	65 Charles Field St.
Herbert Edgar Thayer,	*Foxboro', Mass.*,	Hope, 43.
Frederick Alexander Thomas,	*Pawtucket*,	Pawtucket.
Charles Rawson Thurston,	*Newport*,	Hope, 26.
Henry Anthony Tillinghast,	*Providence*,	108 Angell St.
William Howe Tolman,	*Pawtucket*,	University, 19.
Henry Anthony Townsend,	*Providence*,	103 Bowen St.

NAME.	RESIDENCE.	ROOM.
Clifton Alexander Verner,	*Pittsburg, Pa.*,	Slater, 4.
William Bullock Waterman,	*Providence*,	72 Meeting St.
John Loy Williams,	*Darby, Pa.*,	University, 53.

Select Course.

Frank Porter Cobb,	*Wrentham, Mass.*,	25 Chestnut St.
Thomas George Hazard, Jr.,	*South Kingstown*,	Hope, 32.
Elias John Hoch,	*Philadelphia, Pa.*,	19 Angell St.
Harry Wintroad Kinney,	*Cincinnati, Ohio*,	19 Angell St.

FRESHMAN CLASS.

NAME.	RESIDENCE.	ROOM.
John Aldrich,	*Westerly,*	68 Arnold St.
Edwin Pierce Allen,	*Providence,*	212 Wickenden St
Alfred Williams Anthony,	*Providence,*	Slater, 13.
Arthur Eaton Baker,	*Winchester, Mass.,*	University, 50.
Abram Barker,	*Tiverton,*	Slater, 7.
Ira Barrows,	*North Attleboro', Mass.,*	17 Angell St.
Amasa Junius Parker Bishop,	*Le Roy, N. Y.,*	Hope, 23.
Nathaniel Brown Blaisdell,	*Cranston,*	Oak Lawn.
Herbert Anthony Bowen,	*Providence,*	65 Orms St.
Richmond Brewer,	*Westerly,*	261 Benefit St.
James Albert Brown,	*Brooklyn, Conn.,*	65 Bellevue Ave.
Frank Eli Brooks,	*Sturbridge, Mass.,*	University, 37.
Walter Valentine Burdett,	*Clinton, Mass.,*	Hope, 48.
Jonathan Irvin Chaffee,	*East Providence,*	East Providence.
George Henry Clement,	*Lawrence, Mass.,*	Slater, 2.
Lewis Aden Cook,	*Stamford, Vt.,*	University, 33.
Wilson Gardner Crosby,	*Edgartown, Mass.,*	104 John St.
James Henry Davenport,	*Fall River, Mass.,*	Slater, 20.
Marion B. Denison,	*Norwich, Conn.,*	11 Thomas St.
Lewis Dexter, Jr.,	*Nayatt,*	Slater, 13.
Elisha Dyer, III.,	*Providence,*	Slater, 9.
Joel Nelson Eno,	*Willington, Conn.,*	University, 36.

NAME.	RESIDENCE.	ROOM.
Alfred William Fitz,	*Chelsea, Mass.*,	Slater, 5.
Moses Clement Gile,	*East Haverhill, Mass.*,	University, 57.
Henry Stedman Graves,	*Fall River, Mass.*,	20 Wheaton St.
Ray Woodville Greene,	*Westerly*,	Hope, 45.
Samuel Stuart Greene,	*Providence*,	37 So. Angell St.
Harry Hathaway Hammond,	*Providence*,	29 Angell St.
Clifford Angell Harrington,	*Providence*,	12 Sycamore St.
William Harris,	*Providence*,	60 Bowen St.
Nicholas Hatheway, Jr.,	*Fall River, Mass.*,	Hope, 41.
Joseph Melzer Hobbs,	*Boston, Mass.*,	Hope, 35.
Charles Gregory King, Jr.,	*Cleveland, O.*,	Slater, 14.
Herbert Huntington Lamson,	*Winsor, Vt.*,	Hope, 15.
Simeon Ryarson Leach,	*Jamaica Plain, Mass.*,	439 Benefit St.
Alexander Duncan Leete,	*Providence*,	100 Broadway.
Charles Melvin Leonard,	*Middleboro', Mass.*,	Slater, 15.
Isa Henry Leveen,	*Portsmouth, N. H.*,	University, 36.
Emory Stevens Lyon,	*Providence*,	9 Young Orchard Ave.
Charles Luther,	*Fall River, Mass.*,	Hope, 21.
Henry Parker Manning,	*Raynham, Mass.*,	University, 52.
Edward Mortimer May,	*Worcester, Mass.*,	University, 33.
Leavitt King Merrill,	*St. Paul, Minn.*,	29 Benevolent St.
Ralph Metcalf,	*Providence*,	391 No. Main St.
Eugene Poor Mitchell,	*Hyde Park, Ill.*,	Hope, 13.
William Aloysius Molloy,	*Providence*,	232 Smith St.
Arthur May Mowry,	*Providence*,	Slater, 18.
Horatio Rogers Nightingale, Jr.,	*Providence*,	Slater, 7.
Howard Willis Preston,	*Providence*,	Slater, 13.
Michael Joseph Quigley,	*Valley Falls*,	Valley Falls.
Charles Monroe Sheldon,	*Yankton, Dak.*,	University, 57.
Frank Lucius Shepardson,	*Rehoboth, Mass.*,	Hope, 46.
Richard Otis Sherwood,	*Middletown*,	Hope, 1.
William Edward Simonds,	*Providence*,	79 Williams St.
Henry Byron Slater,	*Birmingham*, ENGLAND,	University, 56.
George Edward Smith,	*Tiverton*,	Slater, 20.
Sylvester Miller Snow,	*Providence*,	Cor. Waterman and Gano Sts.
Charles Allen Steere,	*Chepachet*,	Slater, 19.

NAME.	RESIDENCE.	ROOM.
Edward Casper Stokes,	*Millville, N. J.*,	439 Benefit St.
Martin Walter Twing,	*Monterey, Mass.*,	University, 52.
Fred Van Meter,	*Rome*, ITALY.	University, 24.
Frederic Ellsworth Whittemore,	*Ashland, Mass.*,	27 Wood St.
Walter Valentine Wightman,	*Taunton, Mass.*,	Slater, 19.
Charles William Willett,	*Suffield, Conn.*,	University, 46.
Clarence Otis Williams,	*Providence*,	31 Hammond St.
William Frederic Williams,	*Bristol*,	Hope, 7.
Clarence Edward Wilson,	*East Providence*,	East Providence.
Charles Baldwin Wood,	*Hyde Park, Ill.*,	

Select Course.

Walter Wilcutt Burnham,	*Providence*,	441 Pine St.
Marshall Silas Mason,	*Heartwellville, Vt.*,	Slater, 2.
Lucius Pond Ordway,	*Providence*,	272 Benefit St.
William Edward White,	*Miluer, Ga.*,	439 Benefit St.

SUMMARY.

Graduate Students	16
Seniors	58
Juniors	50
Sophomores	65
Freshmen	71
Total	260

TIME AND CONDITIONS OF ADMISSION.

The regular examination for admission to the Freshman Class will take place on Thursday, Friday, and Saturday of Commencement week, June 17, 18, and 19, 1880, beginning at 8 o'clock, A. M., on Thursday. The candidates will assemble in No. 12, University Hall; and *they must be in attendance during the three days.*

There will be a second examination on Tuesday and Wednesday, September 14 and 15, 1880, beginning at 8 o'clock, A. M. Applicants must be in attendance both days.

Candidates for Advanced Standing will be subjected to a general examination in the studies already pursued by the class which they propose to enter.

No student can be admitted as a candidate for matriculation, unless he bring suitable testimonials of good moral character; and if he come from another college, or an academy, he must also present a certificate of good standing in the institution which he has left, and of regular dismission from it.

For the Course for the Degree of Bachelor of Arts.

Candidates for admission to the Freshman Class are examined in the following subjects; but real equivalents will be received for any of the Latin or Greek works mentioned:

(*Teachers in preparatory schools are requested not to employ in their classes the works assigned for use in College.*)

I. **Greek.** 1. Greek Grammar (Hadley's is preferred). 2. The Syntax and Greek Selections in Harkness's "First Greek Book," or an equivalent from any other Greek Reader. 3. The whole of Xenophon's Anabasis or *five* books of the Anabasis, and *two* books of Homer; the Odyssey is preferred. 4. The first *twenty* exercises of Arnold's Greek Prose Composition, or the first *twenty-five* exercises of Jones's Greek Prose Composition.

II. **Latin.** 5. Latin Grammar (Harkness's Grammar is preferred). 6. *Five* books of Caesar's Commentaries, or *three* books of Caesar and the *Catiline* of Sallust. 7. The *first six* books of Virgil's Aeneid, and thirty-five hundred lines of Ovid; as an equivalent for Ovid, either the *last six* books of the Aeneid, or the Bucolics and Georgics. 8. Seven Orations of Cicero, including the Manilian law. 9. Parts I and II of Harkness's Latin Composition.

III. **Mathematics.** 10. Arithmetic, including the Metric system of weights and measures. 11. Algebra in Equations of the First and of the Second Degree. 12. Plane Geometry.

IV. **English.** 13. English Grammar (Greene's is preferred). 14. The Analysis and Prosody of the First Act of Julius Caesar, in Craik's "English of Shakespeare." 15. Exercises in English Composition.

V. **French.** 16. Otto's French Grammar, Part I, including *the Reading lessons.*

In all these branches, candidates will be examined both orally and by writing.

PRELIMINARY EXAMINATIONS.

In certain of the Preparatory studies, candidates may be examined one year before the time at which they intend to apply for admission to the Freshman Class. This examination will be held in June only. The subjects for this earlier examination will be the following:—

(1.) Greek Grammar.
(2.) The Syntax and Greek selections in Harkness's "First Greek Book," or an equivalent from any other Greek Reader.
(3.) Three books of Xenophon's Anabasis.
(4.) Latin Grammar.
(5.) Caesar, and either Ovid or Cicero; or Caesar, and six books of the Aeneid.
(6.) Arithmetic.

For the Courses for the Degree of Bachelor of Philosophy.

There are at present three parallel courses of instruction of Candidates for the degree of Bachelor of Philosophy, each course extending through a period of four years. Two of these courses include classical studies; the third omits them, and substitutes a larger amount of scientific studies.

Candidates for admission to a course including *Greek*, are examined in all the Greek subjects specified on page 26. They are also examined in all the subjects in the list below (p. 28).

Candidates for admission to a course including *Latin*, are examined in all the Latin subjects specified on page 26. They are

also examined in all the subjects (except the Latin) in the list below (p. 28).

Candidates for admission to the course *omitting* classical studies, are examined in all the following subjects:

I. Latin.

1. *Five* books of Caesar, or its equivalent in Cicero or in Virgil.

II. Mathematics.

2. Arithmetic, including the Metric system of Weights and Measures. 3. Algebra in Equations of the First and of the Second Degree. 4. Plane Geometry.

III. English.

5. English Grammar (Greene's is preferred). 6. The Analysis and Prosody of the First Act of Julius Caesar, in Craik's "English of Shakespeare." 7. Exercises in English Composition.

IV. French.

8. Otto's French Grammar, Part I, including *the Reading lessons.*

In all these branches, candidates will be examined both orally and by writing.

SELECT COURSES.

Students who wish to pursue a Select Course, without entering as candidates for a degree, must be examined in such subjects as are preliminary to the studies that they desire to pursue in College.

SPECIMENS OF RECENT EXAMINATION PAPERS

FOR ADMISSION TO COLLEGE.

WRITTEN EXAMINATION IN LATIN.

I. LATIN GRAMMAR.

1. Give the stem-ending of nouns of the First, Second, Fourth, and Fifth declensions; also the two classes into which nouns of the Third declension are divided according to the stem-ending. Give the case-ending of the dative plural of nouns of the First declension, and of the Second declension, with the quantity marked, and explain the origin of the endings. Give the stem of each of the following nouns: *Ager*, *gener*, *vox*, *pax*, *grex*, *cervix*, *quies*, *dos*, *praes*, *homo*, *aes*, *arcus*, *acies*.

Give the gender, and the accusative and ablative singular of each of the following nouns: *Sitis*, *navis*, *securis*, *orbis*, *imber*, *rus*.

Give the ablative singular and accusative plural of the following adjectives: *Saluber*, *fortis*, *melior*, *pauper*, *uber*, *anceps*.

Give the stems of each of the following verbs: *Rogo*, *deleo*, *rapio*, *dirigo*, *moror*, *venor*, *patior*, *sum*, *sto*.

Mention the only two Latin verbs which retain the original ending of the present indicative.

Give the principal parts of *do* (to give), *juvo*, *pendo*, *eo*, *fero*, marking the quantity of each of the syllables in each of the parts. Inflect the present indicative of *possum*, and of *fero*, and the imperative of *eo*, and *fio*.

Translate the following sentences, and give the rule for the subjunctive in each: Necesse erit eas. Metuebam ut ires. Edo ut vivam. Laudant me quod venerim. Exspecta dum redeam.

Emo libros quos legam. Dubito an verum sit. Non is sum qui te deseram. Quis est quin fleat? Aedes quas emisset exornari jussit.

II. CAESAR AND SALLUST.

Translate either the two passages from Caesar, or one passage from Cæsar and the passage from Sallust.

1. From *Caesar:*

Huic imperat, quas possit adeat civitates horteturque, ut populi Romani fidem sequantur, seque celeriter eo venturum nuntiet.

Explain the use of the subjunctive in the verbs of this sentence.

2. From *Caesar:*

Ad haec Caesar respondit: Se magis consuetudine sua quam merito eorum civitatem conservaturum, si prius quam murum aries attigisset se dedidissent: sed deditionis nullam esse condicionem nisi armis traditis.

Write the words after *respondit* in the *direct discourse.* Give the genitive singular of *aries*, and the genitive plural of *civitatem.*

3. From *Sallust:*

Ad haec Q. Marcius respondit: "Si quid ab senatu petere vellent, ab armis discedant, Romam supplices proficiscantur: ea mansuetudine atque misericordia senatum populumque Romanum semper fuisse, ut nemo unquam ab eo frustra auxilium petiverit."

Write the words after *respondit* in the *direct discourse.*

III. VIRGIL AND OVID.

Translate two of the passages from Virgil, or one passage from Virgil, and the one from Ovid.

1. From *Virgil.*

Praeterea, si qua est Heleno prudentia, vati
Si qua fides, animum si veris implet Apollo,
Unum illud tibi, nate dea, proque omnibus unum,
Praedicam, et repetens iterumque iterumque monebo.

Junonis magnae primum prece numen adora;
Junoni cane vota libens, dominamque potentem
Supplicibus supera donis.

Explain the construction of *vati*, *dea*, *prece*, and *donis*. Give the derivation and original meaning of *numen*, and the composition and original meaning of *supplicibus*, and the stem of the word.

Scan the first line, and give the rules for the quantity of the syllables.

2. From *Virgil*.

Tandem laetus ait: Di nostra incepta secundent,
Auguriumque suum! Dabitur, Trojane, quod optas,
Munera nec sperno. Non vobis, rege Latino,
Divitis uber agri Trojaeve opulentia deerit.
Ipse modo Aeneas, nostri si tanta cupido est,
Si jungi hospitio properat, sociusque vocari,
Adveniat, vultus neve exhorrescat amicos.

Give the derivation of *augurium*, *secundent*, *socius;* the construction of *uber* and *agri*. Scan the fourth line, and give the rules for the quantity of the syllables. Inflect the present indicative of *aio*.

3. From *Virgil*. *Bucolics*.

Hic, ubi densas
Agricolae stringunt frondes, hic, Moeri, canamus;
Hic haedos depone; tamen veniemus in urbem.
Aut si, nox pluviam ne colligat ante, veremur,
Cantantes licet usque — minus via laedit — eamus.
Cantantes ut eamus, ego hoc te fasce levabo.

Give composition of *agricolae*, and the meaning of its component parts. Give the principal parts of *stringunt*, *canamus*, and *laedit;* the composition and the principal parts of *colligat*.

Scan the last line, and give the rules for the quantity of syllables.

4. From *Ovid:*

Ver erat aeternum, placidique tepentibus auris
Mulcebant zephyri natos sine semine flores.
Mox etiam fruges tellus inarata ferebat:
Nec renovatus ager gravidis canebat aristis.
Flumina jam lactis, jam flumina nectaris ibant:
Flavaque de viridi stillabant ilice mella.

Scan first line, and give rules for the quantities. Give the derivation of *aeternus*, and show how the word is formed. Give the gender of *ver*, *lactis*, *ilice*, and *mella*.

IV. CICERO.

1. Tantum profeci tum, cum te a consulatu repuli, ut exsul potius tentare quam consul vexare rempublicam posses; atque ut id, quod esset a te scelerate susceptum, latrocinium potius quam bellum nominaretur.

Give the derivation of *exsul* and *consul*. Construction of the subjunctive in *posses* and *esset*. What is the composition of *posses*, and what would be its full, unabridged form?

2. Quid tandem impedit te? mosne majorum? at persaepe etiam privati in hac republica perniciosos cives morte multârunt: an leges, quae de civium Romanorum supplicio rogatae sunt? at nunquam in hac urbe ii, qui a republica defecerunt, civium jura tenuerunt.

Give the composition and original meaning of *impedit* and of *perniciosos;* the first meaning of *rogatae sunt*, and explain its connection with the meaning here.

V. LATIN COMPOSITION.

Translate into Latin: 1. It is my duty to say what I think. 2. It is often *asked* (*quaero*) whether eloquence is more useful than the knowledge of the civil law. 3. There is no one who *denies* (*nego*) that such citizens have often been *punished* (*punio*).

4. I said that I *hated* (*odi*) those wicked men, because they had *undertaken* (*suscipio*) *measures* (*consilium*) so pernicious, that they were worthy to be called the *enemies* (*hostes*) of their country. 5. He *waited* (*exspecto*) till the *decree* (*consilium*) was *recorded* (*perscribo*).

WRITTEN EXAMINATION IN GREEK.

I. Translate: —

Καὶ ὁ Λύκιος ἤλασέ τε καὶ ἰδὼν ἀπαγγέλλει, ὅτι φεύγουσιν ἀνὰ κράτος. σχεδὸν δ' ὅτε ταῦτα ἦν καὶ ἥλιος ἐδύετο. ἐνταῦθα δ' ἔστησαν οἱ Ἕλληνες καὶ θέμενοι τὰ ὅπλα ἀνεπαύοντο· καὶ ἅμα μὲν ἐθαύμαζον, ὅτι οὐδαμοῦ Κῦρος φαίνοιτο οὐδ' ἄλλος ἀπ' αὐτοῦ οὐδεὶς παρείη· οὐ γὰρ ᾔδεσαν αὐτὸν τεθνηκότα, ἀλλ' εἴκαζον ἢ διώκοντα οἴχεσθαι ἢ καταληφθέντα τι προεληλακέναι· καὶ αὐτοὶ ἐβουλεύοντο, εἰ αὐτοῦ μείναντες τὰ σκευοφόρα ἐνταῦθα ἄγοιντο ἢ ἀπίοιεν ἐπὶ τὸ στρατόπεδον.

II. Translate: —

Τῇ δὲ τρίτῃ ἦκων ἔλεγεν, ὅτι διαπεπραγμένος ἥκοι παρὰ βασιλέως δοθῆναι αὐτῷ σώζειν τοὺς Ἕλληνας, καίπερ πάνυ πολλῶν ἀντιλεγόντων, ὡς οὐκ ἄξιον εἴη βασιλεῖ ἀφεῖναι τοὺς ἔφ' ἑαυτὸν στρατευσαμένους. τέλος δὲ εἶπε, καὶ νῦν ἔξεστιν ὑμῖν πιστὰ λαβεῖν παρ' ἡμῶν ἢ μὴν φιλίαν παρέξειν ὑμῖν τὴν χώραν καὶ ἀδόλως ἀπάξειν εἰς τὴν Ἑλλάδα ἀγορὰν παρέχοντας.

III. Translate: —

Ἐπεὶ δὲ πιεζόμενοι οἱ Ἕλληνες ἐπεχείρησαν διώκειν, σχολῇ μὲν ἐπὶ τὸ ἄκρον ἀφικνοῦνται ὁπλῖται ὄντες, οἱ δὲ πολέμιοι ταχὺ ἀπεπήδων. πάλιν δὲ ὁπότε ἀπίοιεν πρὸς τὸ ἄλλο στράτευμα, ταὐτὰ ἔπασχον, καὶ ἐπὶ τοῦ δευτέρου γηλόφου ταὐτὰ ἐγίγνετο, ὥστε ἀπὸ τοῦ τρίτου γηλόφου ἔδοξεν αὐτοῖς μὴ κινεῖν τοὺς στρατιώτας, πρὶν ἀπὸ τῆς δεξιᾶς πλευρᾶς τοῦ πλαισίου ἀνήγαγον πελταστὰς πρὸς τὸ ὄρος.

IV. Give the construction of the following words: in extract II. *τρίτῃ, αὐτῷ, πολλῶν, φιλίαν*; in III, *σχολῇ, πλαισίου, πελταστάς.*

Explain mood in extract I, in *φεύγουσιν*, *φαίνοιτο*, *παρείη*, and in II, *ἥκοι*, *εἴη*, *ἀφεῖναι*.

V. Decline *ὁδός*, *βασιλεύς*, *ἡδύς*. Compare *ταχύς*, *ὀλίγος*, *ῥᾴδιος*. Give the principal parts of *δράω*, *τρέπω*, *τρέφω*, *βαίνω*, and the synopsis of *φιλέω* in the present, active, and middle. Inflect *λύω* in the future indicative and optative of the middle voice.

VI. Translate : —

Ἐπειδὴ δὲ ἐδείπνησαν καὶ νὺξ ἐγένετο, οἱ μὲν ταχθέντες ᾤχοντο, καὶ καταλαμβάνουσι τὸ ὄρος, οἱ δὲ ἄλλοι αὐτοῦ ἀνεπαύοντο. οἱ δὲ πολέμιοι ἐπεὶ ἤσθοντο ἐχόμενον τὸ ὄρος, ἐγρηγόρεσαν καὶ ἔκαιον πυρὰ πολλὰ διὰ νυκτός. ἐπειδὴ δὲ ἡμέρα ἐγένετο, Χειρίσοφος μὲν θυσάμενος ἦγε κατὰ τὴν ὁδόν, οἱ δὲ τὸ ὄρος καταλαβόντες κατὰ τὰ ἄκρα ἐπῆεσαν. τῶν δ' αὖ πολεμίων τὸ μὲν πολὺ ἔμενεν ἐπὶ τῇ ὑπερβολῇ τοῦ ὄρους, μέρος δ' αὐτῶν ἀπήντα τοῖς κατὰ τὰ ἄκρα.

VII. Give the composition or derivation of all the compounds and derivatives contained in the preceding extract. Give the principal parts of *ἐγένετο*, *ταχθέντες*, *ἐγρηγόρεσαν*, *ἔκαιον*. Inflect *ἐπῆεσαν* in the tense in which it is found.

VIII. Translate into Greek with the accents : — 1. He told me that the Persian had been found guilty of murder. 2. If the citizens should do what they ought, they would be prosperous. 3. Let us not think that all the citizens will serve us.

IX. Translate *one* of the two following extracts : —

Τὴν μὲν νύκτα οὕτω διήγαγον· ἅμα δὲ τῇ ἡμέρᾳ οἱ στρατηγοὶ εἰς τὸ ἐρυμνὸν χωρίον ἠγοῦντο· οἱ δὲ εἵποντο ἀναλαβόντες τὰ ὅπλα καὶ τὰ σκεύη. πρὶν δὲ ἀρίστου ὥραν εἶναι ἀπετάφρευσαν ἥ ἡ εἴσοδος ἦν εἰς τὸ χωρίον, καὶ ἀπεσταύρωσαν ἅπαν, καταλιπόντες τρεῖς πύλας. καὶ πλοῖον ἐξ Ἡρακλείας ἦκεν ἄλφιτα ἄγον καὶ ἱερεῖα καὶ οἶνον. πρωὶ δ' ἀναστὰς Ξενοφῶν ἐθύετο ἐπεξόδια, καὶ γίγνεται τὰ ἱερὰ ἐπὶ τοῦ πρώτου ἱερείου.

Ὣς ἄρα φωνήσασ' ἡγήσατο Παλλὰς Ἀθήνη
καρπαλίμως· ὁ δ' ἔπειτα μετ' ἴχνια βαῖνε θεοῖο.
αὐτὰρ ἐπεὶ ῥ' ἐπὶ νῆα κατήλυθον ἠδὲ θάλασσαν,
εὗρον ἔπειτ' ἐπὶ θινὶ καρηκομόωντας ἑταίρους.
τοῖσι δὲ καὶ μετέειφ' ἱερὴ ἷς Τηλεμάχοιο·
Δεῦτε, φίλοι, ἤϊα φερώμεθα· πάντα γὰρ ἤδη
ἀθρό' ἐνὶ μεγάρῳ· μήτηρ δ' ἐμοὶ οὔτι πέπυσται,
οὐδ' ἄλλαι δμωαί, μία δ' οἴη μῦθον ἄκουσεν.

WRITTEN EXAMINATION IN MATHEMATICS.

Arithmetic.

(1.) What is the value of $\left(\frac{\frac{1}{3}+\frac{3}{10}}{6\frac{1}{3}}+\frac{5\frac{5}{7}}{4\frac{4}{9}}\right)\div 11\times\frac{15\frac{2}{5}}{8\frac{1}{1\frac{1}{2}}}$?

(2.) What will be the cost of digging and walling the cellar of a house 45 ft. by 24 ft. — the cellar being 6 ft. deep, and the wall $7\frac{1}{2}$ ft. high and $1\frac{1}{2}$ ft. thick — if the excavation costs 45 cents a cubic yard, and the masonry $4.25 a perch?

(3.) A merchant bought cloth for 30 cents; what must the goods be marked so that he may throw off 25 per cent. from the marked price, and still make 25 per cent. profit?

(4.) What will be the cost of 3 hectares, 7 ares, 6 centiares of land, at $275.23 a hectare?

Algebra.

(5.) Reduce $\dfrac{\dfrac{c}{c-1}-1}{1-\dfrac{c}{c+1}}$ to a simple fraction.

(6.) Divide a into two parts, such that m times one shall be n times the other.

(7.) If 4 be subtracted from both terms of a fraction, the value will be $\frac{1}{3}$; and if 5 be added to both terms the value will be $\frac{5}{6}$; what is the fraction?

(8.) Given $\sqrt{x-9}+\sqrt{x+11}=10$, to find x.

(9.) Given $2x+\frac{3x-6}{2}=5x-\frac{3x-3}{x-3}$, to find x.

Geometry.

(10.) Prove that the sum of the exterior angles of any polygon is equal to four right angles.

(11.) Prove that through any three points not in the same line, one circumference may pass and only one.

(12.) If, in a right-angled triangle a line be drawn from the vertex of the right angle, perpendicular to the hypothenuse, state and prove the relation of the triangles thus formed, and the relation of the several lines.

WRITTEN EXAMINATION IN ENGLISH.

Casca. Are you not moved, when all the sway of earth . . (1)
Shakes, like a thing unfirm? O Cicero, ... (2)
I have seen tempests, when the scolding winds . . (3)
Have rived the knotty oaks; and I have seen . . (4)
The ambitious ocean swell and rage and foam . . (5)
To be elated with the threatening clouds: . . . (6)
But never till to-night, never till now, ... (7)
Did I go through a tempest dropping fire. . . (8)
Either there is a civil strife in heaven. . . . . (9)
Or else the world, too saucy with the gods. . . . (10)
Incenses them to send destruction. . . . . (11)

I. *Analysis.* Analyze the sentence contained in lines (9), (10), (11).

What is the difference between the infinitives *swell* (5), and *to be elated* (6)?

Give modern equivalents of *unfirm* (2), and *rived* (4).

To what part of speech belongs *like* (2), *till* (7), *to*, in to-night (7), *else* (10)?

State the syntax of *thing* (2), *elated* (6), *did* (8), *tempest* (8), and *saucy* (10).

II. *Prosody.* Scan lines (5) and (7). What poetic feet are admissible in this metre?

III. *Composition.* Write a brief composition upon one of the following themes:

Genuine Politeness.

Living for Self.

The Attractions of Modesty.

WRITTEN EXAMINATION IN FRENCH.

A.

I. Conjugate *affirmatively* with the *pronouns:*

1. Imperfect indicative of *être.* 2. Present conditional of *avoir.*

3. Imperfect subjunctive of *manger.* 4. Imperfect indicative of *punir.*

II. Translate into French with accents:

1. The boys have beautiful gold watches.
2. Where are the animals you gave him?
3. How many white houses are there in this great city?
4. Is your sister hungry or thirsty?
5. Your friends and mine were at her uncle's.

III. Translate into English:

Le vieux chasseur Maurice avait dans sa chambre un sansonnet qu'il avait élevé, et qui avait appris à articuler quelques mots. Quand il disait par exemple: "Sansonnet, où es-tu?" l'oiseau répondait toujours: "Me voilà!"

IV. Questions on the above passage:

1. Give the infinitive of *avait*, *appris*, *disait*.
2. Give the grammatical construction of *qu'*, *Sansonnet*, *Me*.
3. Give masculine and feminine; singular and plural of *vieux*.

B.

I. Conjugate *negatively* with *pronouns:*

1. Present indicative of *payer*. 2. Future indicative of *vendre*.
2. Imperfect indicative of *manger*. 4. Compound imperfect of *finir*.

II. Translate into French with *accents:*

1. Are you the doctor? I am.
2. One will have also some white paper and fine ink.
3. Who is the gentleman that was at your house yesterday?
4. Your father's houses are larger than your uncle's.
5. The long white teeth of the elephant furnish us ivory.

III. Translate into English:

La providence a si sagement arrangé toute chose, que chaque climat fournit aux habitants ce qui leur est le plus indispensable. Dans les contrées polaires il fait si froid, qu'il ne peut y croître ni fruit, ni céréales, ni légumes.

IV. Questions on the above passage:

1. Give grammatical construction of *si*, *ce*, *leur*, *froid*.
2. Give principal parts of *fournit*, *fait*, *peut*, *croître*.

C.

I. Conjugate *interrogatively* with *pronouns:*

1. Compound imperfect indicative of *se tromper*. 2. Present indicative of *espérer*.
3. Present indicative *passive* of *aimer*. 4. Imperfect indicative of *placer*.

II. Translate into French with *accents:*

1. Did you think of your father and mother during your absence?
2. Your children should have loved each other.
3. I should give you some money, if you were more industrious.
4. Whoever does not obey the laws shall be punished.
5. Why do you rejoice at the misfortunes of others?

III. Translation at sight.

OPINION DE JEFFERSON SUR LE PEUPLE FRANÇAIS.

Je ne puis quitter ce grand et bon pays sans exprimer mon opinion sur la supériorté de son caractère parmi toutes les nations de la terre. Je n'ai jamais connu de gens plus bienveillants ni ayant plus de chaleur et de dévouement dans leurs amitiés choisies. Leur bonté pour les étrangers est incomparable, et l'hospitalité de Paris surpasse tout ce qu'on peut imaginer. La capacité des Français dans les sciences, le caractère communicatif de leurs savants, la politesse, la facilité et la vivacité de leur conversation, donnent à leur societé un charme qu'on ne trouve nulle part ailleurs. Nous pouvons donner comme comparaison du peuple français avec les autres peuples ce qui fut dit au sujet de Thémistocle, apprès la bataille de Salamis. Chaque général vota pour lui-même la première récompense de valeur, et la seconde pour Thémistocle. Ainsi, si l'on demandait à un voyageur, de quelque pays que ce fût: "Dans quel pays sur la terre préfèreriez-vous vivre?" "Certainement dans le mien, où sont tous mes amis, mes parents, et les plus douces affections et les souvenirs de mon enfance et de toute ma vie." "Quel serait votre second choix?"—"La France."

NOTE.—Only those who desire to enter the advanced division in French are required to do the work beyond point C, page 38.

COURSES OF INSTRUCTION.

FIRST: FOR THE DEGREE OF BACHELOR OF ARTS.

FRESHMAN CLASS.

First Half-Year.

1. *Greek.* (*a*) Felton's Greek Historians.—(*b*) Arnold's Greek Prose Composition.—(*c*) Smith's History of Greece. *Five hours a week.*

2. *Latin.* (*a*) Livy (Lincoln's Selections), Books I. II. XXI.—(*b*) Harkness's Latin Composition, Part III.—(*c*) History of Rome. *Five hours a week.*

3. *Mathematics.* Algebra, from Quadratic Equations. *Five hours a week.*

4. *French.* (*a*) First Division. The *Télémaque* of Fénelon.—(*b*) Second Division. Otto's Grammar, Part II. *Two hours a week.*

Second Half-Year.

1. *Greek.* (*a*) Homer's Iliad.—(*b*) Arnold's Greek Prose Composition completed. *Five hours a week.*

2. *Latin.* (*a*) Cicero de Senectute.—(*b*) De Amicitia.—(*c*) Exercises in Latin Composition. *Five hours a week.*

3. *Mathematics.* (*a*) Olney's Geometry.—(*b*) Olney's Advanced Course in Geometry, Solid and Spherical.—(*c*) Plane and Spherical Trigonometry. *Five hours a week.*

4. *French.* (*a*) First Division. Racine's *Athalie* and *Esther.*—(*b*) Second Division. The *Napoléon* of Dumas. *Two hours a week.*

SOPHOMORE CLASS.

First Half-Year.

1. *Greek.* Demosthenes.—Public Orations. *Three hours a week.*

2. *Latin.* (*a*) Horace (Lincoln's Edition).—(*b*) Exercises in Latin Composition. *Two hours a week.*

3. *Mathematics.* (*a*) Olney's General Geometry and Calculus.—(*b*) Lectures on Spherical Astronomy. *Five hours a week.*

4. *French.* (*a*) First Division. Corneille's *Horace, Cid, Cinna. Polyeucte;* and Marcillac's *Histoire de la Littérature Française.*—(*b*) Second Division. Racine's *Athalie. Three hours a week.*

5. *Rhetoric.* (*a*) Lectures, *two hours a week.* Text-Book, Hill's Principles of Rhetoric.—(*b*) Exercises in Elocution, *one hour a week.* Murdoch and Russell's Vocal Culture.—(*c*) Essays. Principal books of Reference, Campbell's Philosophy of Rhetoric, Whately's Elements of Rhetoric, Kames' Elements of Criticism, Angus's Hand-Book of the English Tongue, and Channing's Lectures on Rhetoric and Oratory.

Second Half-Year.

1. *Greek.* (*a*) Sophocles.—(*b*) Lectures. *Two hours a week.*

2. *Latin.* (*a*) Tacitus.—(*b*) Exercises in Latin Composition. *Three hours a week.*

3. *Mechanics.* (*a*) Peck's Mechanics. *Five hours a week.*

4. *Rhetoric.* (*a*) Lectures, *two hours a week.* Text-Book, Hill's Principles of Rhetoric.—(*b*) Exercise in Elocution with Declamations. *one hour a week.* Text-Book, Murdoch and Russell's Vocal Culture. Principal books of reference in Elocution, McIlvaine's Elocution, Hullah's Speaking Voice, Bacon's Manual of Gesture.—(*c*) Essays.

Also one of the following elective studies:

French. (*a*) Comedies of Moilère.—(*b*) Lectures. *Three hours a week.*

or

German. (*a*) Whitney's Grammar.—(*b*) Joynes' Reader. *Three hours a week.*

JUNIOR CLASS.

First Half-Year.

1. *Rhetoric.* (*a*) Keane's Hand-Book of the English Language. Lectures on the History of English Literature, with Readings from authors. *Three hours a week.*—(*b*) Exercises in Elocution.—(*c*) Essays and Speeches. *Saturdays.* Principal authors referred to: (1) In Language, Müller, Whitney, Marsh and Craik. (2) In Literature, Morley, Taine, Arnold and the "Clarendon Press" Series of English Classics.

2. *Astronomy.* Loomis's Astronomy with Lectures. *Three hours a week.*

3. *Chemistry.* Lectures. The lectures are illustrated by experiments, and colored charts, and black-board exercises. Books of reference: Fownes's Chemistry, Barker's Chemistry, Roscoe's Chemistry. *Three hours a week.*

4. *Physics.* (*a*) Lectures, together with experiments, also (*b*) Recitations, both written and oral. Books of reference: Atkinson's Ganot, Deschanel's Natural Philosophy, Silliman's Physics. *Five hours a week.*

One of the following elective courses:

German. Schiller's *Jungfrau von Orleans. Two hours a week.*

Latin. (*a*) Horace's Ars Poetica.—(*b*) Selections from the Epistles. *Two hours a week.*

Greek. Two hours a week.

Second Half-Year.

1. *Logic.* Text-Book, Jevons' Logic. Principal authors referred to in Logic: Sir W. Hamilton, De Morgan, Thomas, Mill, Mansel, Bowen and Fowler. *Three hours a week.*

2. *Physiology.* Lectures. Books of reference: in Anatomy, Quain and Gray; in Physiology, Dalton, Marshall and Foster; in Hygiene, Buck. *Five hours a week.*

3. *Rhetoric.* (*a*) Chaucer, Spenser or Shakespeare. *Two hours a week.*—(*b*) Exercises in Elocution.—(*c.*) Original speeches, *Saturdays.*

A sufficient number of the following elective courses to make up *six hours a week.*

Latin. Juvenal, Terence, Latin Composition, Lectures.

Greek. Plato.

German. Lessing's *Emilia Galotti.*

Zoölogy. Lectures, and laboratory work. Books of Reference, Packard's Zoölogy. Huxley's Anatomy of the Invertebrates, Huxley's Anatomy of the Vertebrates. Gegenbaur's Elements of Comparative Anatomy. Packard's Outlines of Comparative Embryology.

Political Economy. Lectures. Mill's Political Economy, Fawcett's Manual, Perry's Political Economy, Walker's Science of Wealth.

Analytical Chemistry. Laboratory practice.

Advanced Mechanics.

Botany. Lectures and field excursions.

SENIOR CLASS.

First Half-Year.

1. *Intellectual Philosophy.* (*a*) Lectures.—(*b*) Essays by the class. Sir William Hamilton's Lectures on Metaphysics. Mansel's Metaphysics. Wayland's Intellectual Philosophy. Porter's Human Intellect. Ueberweg's History of Philosophy. *Five hours a week.*

2. *History.* Mediaeval History, from the fall of the Western Empire to the Reformation.—(*a*) by lectures.—(*b*) by abstracts presented by the class. Guizot's European Civilization, Duruy's *Histoire du Moyen Age*, Gibbon's Roman Empire, Hallam's Middle Ages, Milman's Latin Christianity, Bryce's Holy Roman Empire, Kitchin's France, Stubbs's English Constitutional History. *Six hours a week.*

A sufficient number of the following elective courses to make up *five hours a week.*

Lectures on Roman Law.

Latin. Lucretius, with Lectures.

Greek. Demosthenes, Oration on the Crown.

French. (*a*) Modern French Plays.—(*b*) Duruy's *Histoire du Moyen Age.*

German. Goethe's *Iphigenie.*

Analytical Chemistry. Laboratory practice.

Civil Engineering.

Geology. Lectures.—Books of reference: Dana's New Text-Book of Geology; Dana's Manual of Geology. Le Conte's Elements of Geology. Nicholson's Ancient Life-History of the Earth.

Second Half-Year.

1. *Moral Philosophy.* (*a*) Lectures, with (*b*) essays by the class. Wayland's Moral Science. Alexander's Moral Science. Kant's Metaphysics of Ethics (Semple's translation). Calderwood's Hand-Book of Moral Philosophy. References to various authors. *Five hours a week.*

Natural Theology, and Evidences of Christianity, by Lectures.

2. *History.* (*a*) Modern History, from the Reformation to the French Revolution.—(*b*) Colonial History.—(*c*) Constitutional History of the United States; by lectures and abstracts. Duruy's *Histoire des Temps Modernes,* Hallam's Constitutional History of England, Stephen's Lectures on the History of France, Woolsey's International Law, Farrar's Manual of the Constitution. The Federalist. *Five hours a week.*

3. *International Law.*

A sufficient number of the following elective courses to make up *six hours a week.*

Lectures on the History of Philosophy.

Latin.

Greek.

French. (*a*) Modern French Plays.—(*b*) Duruy's *Histoire des Temps Modernes.*

German. Goethe's *Faust.*

Political Economy.

History of Architecture. Lectures.

Agricultural Zoölogy. (Students on State Scholarships are required to take this course.)

Botany.

Civil Engineering.

Geology, (continued). Lectures; *with a short course on Archæology and Ethnology.*

SECOND: FOR THE DEGREE OF BACHELOR OF PHILOSOPHY.

The following are the outlines of the courses; but they may be subjected to such modifications as are hereafter found advisable:

Course including an Ancient Language.

FRESHMAN CLASS.

First Half-Year.

1. Greek or Latin, *five hours a week.*
2. Algebra, *five hours a week.*
3. French, *two hours a week.*
4. Mechanical drawing and Plane problems, *five hours a week.*

Second Half-Year.

1. Greek or Latin, *five hours a week.*
2. Geometry and Trigonometry, *five hours a week.*
3. French, *two hours a week.*
4. Descriptive Geometry, *five hours a week.*

SOPHOMORE CLASS.

First Half-Year.

The following required studies:

1. Greek or Latin, *two or three hours a week.*
2. Analytical Geometry and Calculus, *five hours a week.*
3. Rhetoric and Elocution, *three hours a week.*

A sufficient number of the following elective courses to make *six hours a week.*

French,

Shades and shadows, and linear perspective.

Course not including an Ancient Language.

FRESHMAN CLASS.

First Half-Year.

1. Algebra, *five hours a week.*
2. French, *two hours a week.*
3. English language, *three hours a week.*
4. Mechanical drawing, Free-hand drawing and Plane problems, *six hours a week.*

Second Half-Year.

1. Geometry and Trigonometry, *five hours a week.*
2. French, *two hours a week.*
3. English language, *three hours a week.*
4. Free-hand drawing and Descriptive Geometry, *six hours a week.*

SOPHOMORE CLASS.

First Half-Year.

The following required studies:

1. Analytical Geometry and Calculus, *five hours a week.*
2. Rhetoric and Elocution, *three hours a week.*

A sufficient number of the following elective courses to make up *eight hours a week.*

French,

Shades and shadows, and linear perspective.

Second Half-Year.

The following required studies:

1. Greek or Latin, *three or two hours a week.*
2. Mechanics, *five hours a week.*
3. Rhetoric and Elocution, *three hours a week.*

A sufficient number of the following elective courses to make *six hours a week.*

French,
German,
Differential and Integral Calculus.

Course including an Ancient Language.

JUNIOR CLASS.

First Half-Year.

1. Physics, *five hours a week.*
2. English Literature, *four hours a week.*
3. Astronomy, *three hours a week.*
4. Chemistry, *three hours a week.*

A sufficient number of the following elective courses to make up *two hours a week.*

German,
Latin,
Greek.

Second Half-Year.

The following required studies:

1. Physiology, *five hours a week.*
2. Logic, *three hours a week.*
3. English Language, *two hours a week.*

A sufficient number of the following elective courses to make up *six hours a week.*

Zoölogy,
Political Economy,
Latin,
Greek,
German,
Analytical Chemistry,
Advanced Mechanics,
Botany.

Second Half-Year.

The following required studies:

1. Mechanics, *five hours a week.*
2. Rhetoric and Elocution, *three hours a week.*

A sufficient number of the following elective courses to make up *eight hours a week.*

French or German,
Analytical Chemistry,
Differential and Integral Calculus.

Course not including an Ancient Language.

JUNIOR CLASS.

First Half-Year.

The following required studies:

1. Physics, *five hours a week.*
2. English Literature, *four hours a week.*
3. Astronomy, *three hours a week.*
4. Chemistry, *three hours a week.*

A sufficient number of the following elective courses to make up *two hours a week.*

German,
Civil Engineering.

Second Half-Year.

The following required studies:

1. Physiology, *five hours a week.*
2. English Language, *two hours a week.*
3. Logic, *three hours a week.*

A sufficient number of the following elective courses to make up *five hours a week.*

Zoölogy,
Political Economy,
German,
Analytical Chemistry,
Advanced Mechanics,
Botany.

Course including an Ancient Language.

SENIOR CLASS.

First Half-Year.

The following required studies:

1. Intellectual Philosophy, *five hours a week.*
2. History, *six hours a week.*

A sufficient number of the following elective courses to make up *five hours a week.*

Lectures on Roman Law,
French,
German,
Latin,
Greek,
Geology,
Analytical Chemistry,
Civil Engineering.

Second Half-Year.

The following required studies:

1. Moral Philosophy and Natural Theology, *five hours a week.*
2. History and International Law, *five hours a week.*

A sufficient number of the following elective courses to make up *six hours a week.*

Lectures on History of Philosophy,
Latin,
Greek,
French,
German,
Political Economy,
Analytical Chemistry,
Advanced Mechanics,
Botany,
Agricultural Zoölogy.

Course not including an Ancient Language.

SENIOR CLASS.

First Half-Year.

The following required studies:

1. Intellectual Philosophy, *five hours a week.*
2. History, *six hours a week.*

A sufficient number of the following elective courses to make up *five hours a week.*

Lectures on Roman Law,
French,
German,
Geology,
Analytical Chemistry,
Civil Engineering.

Second Half-Year.

The following required studies:

1. Moral Philosophy and Natural Theology, *five hours a week.*
2. History and International Law, *five hours a week.*

A sufficient number of the following elective courses to make up *six hours a week.*

Lectures on the History of Philosophy,
French,
German.
Political Economy,
Analytical Chemistry,
Advanced Mechanics,
Experimental Physics,
Zoölogy,
Botany,
Agricultural Zoölogy.

DEPARTMENTS OF PRACTICAL SCIENCE.

Departments of Practical Science have been established in the University for the benefit of students who wish to prepare themselves for such pursuits as require especially the knowledge of mathematical and of physical science, and their applications to industrial arts.

In these departments provision has also been made for courses of instruction in "such branches of learning as are related to Agriculture and the Mechanic Arts." This provision has been made in accordance with an "Act of Congress granting lands for the establishing of Agricultural Colleges," and with "Resolutions of the General Assembly of the State of Rhode Island, accepting these lands, and assigning the same to Brown University." Students who enter only for these studies either in full or in part, are subject to the same conditions of admission as for any select course; and when they have duly pursued such studies, they will be entitled to a certificate stating the time of their University residence, and the amount of their acquisitions. They may, however, pursue these studies in connection with "the regular scientific and classical studies of the University," and when they have so pursued them as to fulfill the requirements for the Degree of Bachelor of Arts or of Bachelor of Philosophy, they will be entitled to these degrees.

I. CHEMISTRY APPLIED TO THE ARTS.

The Chemical Laboratory is open to students (except on Saturdays) from 8.30 A. M. to 2.30 P. M.

It is the design of this department to teach students Analytical chemistry, and then to direct their studies to the practical applications of chemistry. Attention is given to Metallurgy, Pharmacy, Medical chemistry, Agricultural chemistry, and the application of chemistry to manufacturing processes.

The course is not confined to undergraduates; other persons—if prepared to pursue the study to advantage—are admitted to the Laboratory. But a knowledge of the general principles of Chemistry is absolutely necessary to profitable study in this department.

The text-books used are:

Appleton's Qualitative Chemical Analysis, and Appleton's Quantitative Chemical Analysis, Thorpe's Inorganic Chemistry, Thorpe's Chemical Problems.

The following works of reference, together with many others, are always in the Laboratory and always accessible to students:

Fresenius's Qualitative Chemical Analysis, Fresenius's Quantitative Chemical Analysis, Watts's Dictionary of Chemistry, Storer's Dictionary of Chemical Solubilities.

II. CIVIL ENGINEERING.

The regular course in this department occupies four years, but a longer or shorter course may be pursued, according to the wants or abilities of students. Those who are unable to pursue a full course, will find the studies so arranged that the knowledge and practice acquired in only a partial course will be practical and available. Ample provision will be made for the instruction of any who desire a more extended course than is here indicated, in Engineering and in Higher Mathematics.

The following is the order of study for the regular course:

First Year. Use of Mathematical instruments, including Line drawing, Pen shading, Graphical construction of Plane problems; Free-hand drawing and shading; use of Mathematical tables; Trigonometry, and its appplication to the measurement of areas; Plane surveying, including the theory and adjustment of instruments, Field practice, Plotting surveys, and Descriptive Geometry.

Second Year. Differential and Integral Calculus; Shades and Shadows and linear Perspective, and Isometrical Drawing.

Third Year. Theory of structure, embracing the construction of foundations, Stone and Brick masonry; and detailed drawings of the same; Calculation and geometrical representation of the strain on trusses and girders; Drawing of Plans, Profiles, Elevations and Sections.

Construction of machinery and bridges, and drawings of the same; Strength of materials used in construction; Estimation of resistance of Friction and rigidity; and Hydraulics, embracing the structure and use of hydraulic machines, the investigation of the laws which govern the flow of water from reservoirs and the flow of water in rivers, canal and conduit pipes, and water used as a motor.

Fourth Year. Weisbach's Mechanics, or Mahan's Civil Engineering.

To pursue this course to the best advantage, the following mathematical studies taught in the University, should be pursued, in connection with those above mentioned, viz. Algebra, Geometry, Plane and Spherical Trigonometry, Analytical Geometry, and Calculus.

Students desiring admission to this course are subjected to an examination on the same amount of Mathematics as is required of candidates entering for a degree.

III. PHYSICS.

The laboratory of the Department of Physics is open to a limited number of students, who show special aptitude for this study, and are desirous of familiarizing themselves with the construction and use of physical apparatus and with the means of investigation.

The appliances of this department have been increased this year by the gift from Mrs. Dr. T. P. Shepard of a complete photographic outfit; and from Professor John Peirce, of more than a hundred valuable books on scientific subjects as the nucleus of a laboratory library.

IV. BOTANY.

Instruction in Botany is given by means of lectures, in which free use is made of the blackboard and diagrams. The course

embraces the necessary morphological and physiological subjects, and is supplemented by practical class-work in which each student has the use of a dissecting microscope. Great stress is laid upon the importance of drawing from nature, and students are taught to make illustrative sketches.

At the proper season excursions are made, under the guidance of the Instructor, to neighboring points of botanical interest. At such times students are shown how best to collect and preserve specimens.

V. ZOÖLOGY AND GEOLOGY.

Zoölogy, with especial reference to Palæontology, is taught by lectures, laboratory work (forming a course of comparative anatomy), and by dredging and collecting excursions in Narragansett Bay and near the city, with especial reference to the local fauna.

Instruction in Geology is given by means of lectures, and models, laboratory work, and field excursions, with special reference to the geology, structural and economic, of Rhode Island.

During the past two years important collections of animals, fossils, rocks and ores have been made by Professor Packard, in Montana, Utah, Colorado, Wyoming and New Mexico. Many of these specimens are used in laboratory instruction. Students have accompanied the Instructor to the western Territories, and it is proposed to make from year to year similar excursions—to the western and southern states—in which a few students may take a part. Important collections of rocks and fossils from South Carolina, Illinois and different parts of New England have also been added for laboratory use.

VI. AGRICULTURE.

The course of instruction in Agriculture includes the courses in the preparatory branches, Chemistry and Physics, Botany, Physiology, Zoölogy, and Comparative Anatomy. It also in-

cludes the special lectures on Agriculture. These relate to the study of soils, and Applied Economic Zoölogy. The course of instruction is illustrated by specimens from the Museum of Natural History, and by field excursions. It also includes practical instruction in obtaining and preserving specimens, and in Taxidermy.

MUSEUM OF NATURAL HISTORY AND ETHNOLOGY

IN RHODE ISLAND HALL.

The Museum is under the care of Professor John W. P. Jenks, who has been appointed by the Corporation to be its Curator. The collections it now contains, as classified and arranged by Professor Jenks, are as follows:

1.	In Zoölogy, including skeletons for Comparative Anatomy,	
	Quadrupeds	150
	Birds (500 mounted)	5,000
	Reptiles and Fishes	600
	Insects	10,000
	Crustaceans	1,000
	Worms	500
	Mollusks	13,000
	Echinoderms	100
	Corals and Hydroids	130
	Sponges	25
2.	In Mineralogy, specimens	9,350
3.	In Geology and Palæontology, specimens	4,500
4.	Botany (miscellaneous collection)	500
5.	The Herbarium presented by W. Whitman Bailey, B. P. (This collection represents about 500 species.) The number of specimens is	1,500
6.	Indian Implements and Relics, specimens	1,000
7.	Implements and curiosities of other uncivilized peoples,	700
8.	Coins and Medals	2,500

LIBRARY.

The University Library is now arranged in the new fire-proof building, erected by the munificence of the late John Carter Brown, A. M.

According to the last annual report of the Library Committee, the University Library consists of *fifty-two thousand* volumes, and sixteen thousand unbound pamphlets. In its early history it received additions in the form of donations and legacies made by friends of the College, both in this country and in England. During the Presidency of Dr. Wayland, a permanent Library fund of twenty-five thousand dollars (now $27,500) was raised. Books are purchased from the income of this fund, under the direction of a joint Committee of six persons, appointed annually by the Corporation and the Faculty of the University.

Upon the Library tables may be found the most important American and foreign periodicals, pertaining to science, history, literature, bibliography, philology, and the classics.

In term-time, the Library is open from 10 A. M. to 3 P. M. on every week day except Saturday; on Saturdays it is open from 10 A. M. to 2 P. M. During vacations it is open on Saturdays.

The following are some of the General Regulations, relating to the use of the Library, and adopted by the Corporation, June 20, 1878.

1. It is the desire of the Corporation that so far as may be practicable, the books of the Library shall be consulted and used at the tables, without being taken from the Library building.

. . . . . .

3. The members of the Corporation, the President, Professors, Instructors, Tutors, Registrar, resident graduates, and all donors to the funds of the University to the amount of five hundred dollars, residing in the City of Providence, together with any others to whom the Corporation or the Library Committee may grant the privilege, shall be entitled to the use of the Library without expense. The undergraduates shall be

entitled to the use of the Library, and shall be charged therefor the sum of five dollars per annum.

4. The privilege of reading or of consulting books in the Library, during Library hours, shall be extended to college graduates generally, to clergymen of every denomination; and to all other persons on whom the Corporation or Library Committee may from time to time confer it.

5. Not more than three volumes at one time shall be allowed to the undergraduates, who may keep the same two weeks, with the privilege of renewal at the discretion of the Librarian.

. . . . . .

7. Borrowers can take books only after they have been charged to them by the Librarian or his Assistant; and if they send for books, they must sign and date an order.

8. For every book not returned at the time specified, the borrower shall pay a fine of ten cents a day until it shall be returned.

9. No person shall lend to any one a library book, or let it go out of his personal custody; and the borrower alone shall be responsible for the book while it is charged to him.

10. No borrower shall write or mark in a book belonging to the Library, or turn down the leaves of the same.

. . . . . .

12. Undergraduates who leave Providence for an absence of more than one week, must first return all borrowed books.

13. All the books, whether in possession of undergraduates, resident graduates, officers of instruction, members of the Corporation, or others, shall be returned to the Library on or before the Wednesday preceding Commencement. Any person who may fail to comply with this requirement, shall pay one dollar for each volume of which he retains possession.

N. B.—Degrees are not granted until the candidate has exhibited to the Registrar a certificate that he has paid all fines incurred, and returned in good order, or replaced, every book that he has borrowed; or, in default thereof, has deposited with the Librarian the full value of it in money.

PUBLIC WORSHIP.

The exercises of every day commence with Prayers in the College Chapel. All Students are also required to attend public worship on Sunday. For this purpose, each one reports to the President, at the beginning of the term, the church which he will attend.

COLLECTION OF PORTRAITS.

Through the liberality of the friends of the College, a Collection of Portraits has been presented to it, and deposited in the new Picture gallery in Rhode Island Hall. It consists of portraits of benefactors of the University, of some of its former officers, and of men whose names are conspicuous in the earlier or the more recent annals of Rhode Island.

GYMNASIUM.

The corporation makes an appropriation each year for the rent of a Gymnasium Hall, most of the apparatus in which belongs to the University. Students have access to this Hall, with the use of all the apparatus in it, on payment of two dollars a year to the keeper of the Gymnasium.

SEMI-ANNUAL EXAMINATIONS.

Examinations of all the classes are held at the close of each half-year.

Some examinations are conducted by writing, some are oral, while in certain cases the same class is subjected to both tests. The maximum mark assigned is 20. If, upon examination in a given study, a student receives a mark which is less than 10, he fails to "pass" in that study, and must prepare himself for a subsequent examination.

Committees of Examinations have been appointed for the several departments as follows:

1. Greek.

Rev. Thacher Thayer, D. D. — Merrick Lyon, LL. D.
Rev. Heman Lincoln, D. D. — Edward H. Cutler, A. M.
Rev. John B. G. Pidge, A. B.

2. Latin.

Rev. John C. Stockbridge, D. D. — Horatio N. Slater, Jr., A. M.
Lucius O. Rockwood, A. M. — Frederick W. Tilton, A. M.
Charles B. Goff, A. M. — Rev. C. H. Wheeler, A. M.

3. German.

Rev. Alvah Hovey, D. D. — Samuel W. Peckham, A. M.
Stephen H. Arnold, Esq. — Rev. Carl W. Ernst, A. M.
G. Radeke, M. D. — Joseph C. Ely, LL. B.

4. French.

William Goddard, A. M. — Edward T. Caswell, M. D.
Edwin M. Snow, M. D. — Howard M. Rice, A. M.
David W. Hoyt, A. M.

5. Rhetoric and English Literature.

Rev. Adoniram J. Gordon, D. D. — Rev. J. G. Vose, D. D.
Alexander Farnum, A. M. — Rev. S. D. Phelps, D. D.
J. Carter Brown Woods, LL. B.

6. Physiology.

Edwin M. Snow, M. D.
S. S. Keene, M. D.
J. C. Greenough, A. M.
Oliver C. Wiggin, M. D.
L. W. Russell, Esq.

7. Physics.

Hon. Rowland Hazard, A. M.
William A. Mowry, A. M.
Arnold B. Chace, A. B.
Prof. George I. Chace, LL.D.
Hon. Samuel Powel.
Prof. John Peirce, A. M.
George H. Corliss, A. M.

8. History and Political Economy.

Hon. Charles S. Bradley, LL.D.
Hon. Samuel G. Arnold, LL.D.
Prof. William Gammell, LL.D.
Hon. John R. Bartlett, A. M.
Rev. Augustus Woodbury, A. M.

9. Intellectual and Moral Philosophy.

Rev. Alva Woods, D. D.
Rt. Rev. Thomas M. Clark, D.D.
Rev. Alvah Hovey, D. D., LL.D.
Rowland G. Hazard, LL.D.
Prof. George I. Chace, LL.D.
Rev. Daniel Leach, D. D.

10. Mathematics and Astronomy.

Zachariah Allen, LL. D.
J. Herbert Shedd, Esq.
Emory Lyon, M. D.
Charles P. Robinson, A. M.
Edward Pearce, Jr., A. M.
Hon. A. E. Burnside, A. M.

11. Chemistry.

Arnold B. Chace, A. B.
Prof. John Peirce, A. M.
Marshall Woods, M. D.
Amasa M. Eaton, LL.B.

12. Logic.

Rev. A. H. Granger, D. D.
William W. Douglas, LL. B.
Hon. Thomas Durfee, LL.D.
Rev. Elias H. Johnson, D. D.

EXPENSES.

The term bills are paid strictly in advance, at the commencement of each half year.

If a student is matriculated as a candidate for a degree, he is charged a fee of $5.00.

The College expenses for the year are as follows:—

Tuition, $50.00 per half year	. .	$100 00
Room rent, $10.00 per half year	. .	20 00
(But rooms or suites in Slater Hall vary in price from $25.00 to $155.00 per annum.)		
Use of Library, $2.50 per half year	.	5 00
Registrar's salary, $2.00 per half year	.	4 00
Public fuel, Servants' hire, Printing,	Charged at cost, but average about	. 22 00
		$151 00

To meritorious students, needing assistance, a reduction of from 30 to 50 per cent. of the charge for tuition may be made.

If a student occupy a room alone, his rent and servants' hire are doubled.

It has been customary to charge the graduating class the expense of its own Commencement exercises. For the several Commencements for the last few years, the charge has been $18.00 for each member of the class.

Board is not furnished in College. The Registrar keeps a list of the names of families in the city by whom board is furnished to students. The following are the usual rates.

Board at from $3.00 to $5.00 per week. (The larger propor-

tion of students pay at present under $4.00 per week for board.) Board, with furnished rooms, from $5.00 to $7.00 per week.

The above estimate for tuition does not include the fees for instruction in Chemistry applied to the Arts.

The expenses of a student who takes a course of study in the Chemical Laboratory, of two hours daily, are (for each half year) as follows:

Tuition	$16 66
Gas, chemicals, etc.	18 34
Breakage (varying with the student's care), about	3 00
	$38 00

Students who take courses of four hours or of six hours daily, pay respectively double or treble the above amounts.

PECUNIARY AID TO STUDENTS.

Scholarships.

Among the various forms of aid offered to students, there are about one hundred scholarships.

There are *sixty-three* Scholarships of One Thousand Dollars each, the income of which is given, under the direction of a committee appointed by the Corporation, to meritorious students who may need pecuniary assistance; *but a scholarship is forfeited if the candidate incurs college censure, or fails to secure at least seventy-five per cent. of the maximum mark.*

The Nicholas Brown Scholarships. Eleven, founded by a bequest made by Nicholas Brown.

The University Scholarships. Four, from College funds appropriated by the Corporation to this use.

The President's Scholarships. Founded by Barnas Sears, when President of the College.

Alva Woods Scholarships. Five, founded by Alva Woods.

James H. Duncan Scholarship. Founded by James H. Duncan.

Isaac Davis Scholarship. Founded by Isaac Davis.

Arnold Whipple Scholarship. Founded in memory of Arnold Whipple, by Mrs. Arnold Whipple.

Ephraim Wheaton Scholarship. Founded by James Wheaton.

Joseph Brown Scholarship. Founded by Mrs. E. B. Rogers.

Gardner Colby Scholarship. Founded by Gardner Colby.

James Y. Smith Scholarship. Founded by James Y. Smith.

S. S. Bradford Scholarships. Two, founded by S. S. Bradford.

Frances R. Arnold Scholarship. Founded by Mrs. Frances R. Arnold.

Cornelia E. Green Scholarship. Founded by Mrs. Cornelia E. Green.

Crocker Scholarship. Founded by Robert H. Ives and Thomas P. Ives.

Clark Scholarship. Founded by Robert H. Ives and Thomas P. Ives.

Albert Day Scholarship. Founded by Albert Day.

Henry P. Kent Scholarship. Founded by Henry P. Kent.

Romeo Elton Scholarship. Founded by Romeo Elton.

Anne E. Waters Scholarships. Five, founded by Mrs. Anne E. Waters.

L. Fairbrother Scholarship. Founded by Mrs. L. Fairbrother.

George Lawton Scholarship. Founded by George Lawton.

John P. Crozer Scholarship. Founded by Mrs. Margaret Bucknell.

Horatio N. Slater Scholarship. Founded by Horatio N. Slater.

Earl P. Mason Scholarship. Founded by Earl P. Mason.

Newport Scholarship. Founded by William Sanford Rogers.

Alexis Caswell Scholarship. Founded by Alexis Caswell.

G. K. and H. A. Pevear Scholarship. Founded by G. K. and H. A. Pevear.

Joseph C. Hartshorn Scholarship. Founded by Joseph C. Hartshorn.

Rogers High School Scholarship. Founded by William Sanford Rogers.

James Wheaton Scholarship. Founded by James Wheaton.

Charles Thurber Scholarship. Founded by Charles Thurber.

Pardon Miller Scholarship. Founded by Mrs. Ann E. Miller.

Hezekiah S. Chase Scholarship. Founded by Hezekiah S. Chase.

William Bucknell Scholarship. Founded by William Bucknell.

Austin Merrick Scholarship. Founded by Mrs. Olive E. Merrick.

Jackson Scholarships. Three, founded by Henry Jackson.

Mumford Scholarship. Founded by Mrs. Louisa D. Mumford.

Henry Clifford Knight Scholarship. Founded by Miss Amelia S. Knight, in memory of her brother, a member of the class of 1875.

Besides the above Scholarships, there are others, the assignment of which is made subject to special provisions. These are as follows:

The Carpenter Scholarships. Two, founded by Thomas Carpenter and Lydia Carpenter, the income of which is given in two premiums of sixty dollars each, at the *end of the Senior year,* to the two members of the Senior class, who, "already on Scholarships, shall, in the judgment of the Faculty, unite in the highest degree the three most important elements of success in life, ability, character, and attainment."

For the year 1878–79 the Carpenter Scholarships were awarded to

WALLACE PETER DICK

AND

STEPHEN OSTROM EDWARDS.

The Bartlett Scholarship. Founded by Mrs. Elizabeth Slater

Bartlett, by a donation of four thousand dollars, the income of which is to be "devoted to the support of one or more students needing pecuniary aid, and giving promise by studious aims and by character and scholarship of rising to distinction and usefulness."

The Glover Scholarships. Founded by a donation of five thousand dollars, by Henry R. Glover, "in memory of his father Samuel Glover, a graduate of the College, of the class of 1808, and of his brother Samuel Glover, Jr., of the class of 1839." Assignment is made upon the basis of character and attainments.

The Scholarship of the class of 1838, of thirty-eight hundred dollars. Founded by members of the class of 1838, and also assigned upon the basis of character and scholarship.

Scholarships of the Department of Agriculture. By Resolutions of the General Assembly of the State of Rhode Island, the national grant "for the benefit of Agriculture and the Mechanic Arts," was given to Brown University; and the fund of fifty thousand dollars, which has accrued from this grant, is by agreement on the part of the University devoted to the education "of scholars, each at the rate of one hundred dollars per annum, to the extent of the entire annual income." Appointments to these scholarships are made, on the nomination of the General Assembly, by the Governor and Secretary of State, in conjunction with the President of the University.

Aid Fund.

A fund of something over eight thousand dollars has been given to the University by two of its friends, the income of which is applied to the assistance, either by loan or by gift, of deserving young men of limited means.

PREMIUMS.

1. For Excellence in Preparatory Studies.

The President's Premiums. These are derived from the income of a donation made by the late Rev. Francis Wayland, D. D., while President of the University. They are awarded to those members of the Freshman class, candidates for the degree of Bachelor of Arts, or of Bachelor of Philosophy, who are found, *upon a special examination*, to have attained the highest excellence in the classical studies preparatory to admission to College. They are fixed by statute as follows:

A First Premium of fifteen dollars, and a second of ten dollars, for excellence in the Greek language.

A First Premium of fifteen dollars, and a second of ten dollars, for excellence in the Latin language.

The competitors are examined in the classical studies required as preparatory for admission to the College.

This year (1879), the award of these Premiums was as follows:

Greek.

The First Premium to WILSON GARDNER CROSBY, instructed by Merrick Lyon, LL.D., in the University Grammar School.

Two Second Premiums: one to ALFRED WILLIAMS ANTHONY, instructed by Charles B. Goff, A. M., in Mowry & Goff's English and Classical School, Providence; the other to ELISHA DYER, III., instructed by Rev. Henry A. Coit, D. D., in St. Paul's School, Concord, N. H.

Latin.

The First Premium to ALFRED WILLIAMS ANTHONY, instructed by Charles B. Goff, A. M., in the English and Classical School, Providence.

The Second Premium to ELISHA DYER, III., instructed by Charles S. Knox, A. M., in St. Paul's School, Concord, N. H.

An additional Second Premium to MOSES CLEMENT GILE, instructed by D. Y. Comstock, A. M., in Phillips Academy, Andover.

Mathematics.

The Hartshorn Premiums. JOSEPH C. HARTSHORN, A. M., a graduate of the class of 1841, has made a donation to the University, the income of which is appropriated to *three premiums*, viz.:

A First Premium of thirty dollars.
A Second Premium of twenty dollars.
A Third Premium of ten dollars.

These are awarded to those members of the Freshman class, who are found upon examination to have excelled in the preparatory mathematical studies.

This year (1879), these Premiums were awarded as follows:

The First Premium to HENRY PARKER MANNING, instructed by Mr. George W. Rigler in the Connecticut Literary Institution, Suffield, Conn., Joseph A. Shores, A. M., Principal.

The Second Premium to ARTHUR MAY MOWRY, instructed by Alexander Bevan, A. M., in Mowry & Goff's English and Classical School, Providence.

The Third Premium to LEAVITT KING MERRILL, instructed by Capt. J. W. Dewey (West Point) in the Minnesota Military Academy.

II. For Excellence in College Studies.

Carpenter Prizes for Elocution. These are: A First Prize of *sixty* dollars. A Second Prize of *thirty-six* dollars. A Third Prize of *twenty-four* dollars.

They are derived from the income of a fund established by THOMAS CARPENTER. They are awarded annually to the three members of the Sophomore Class to whom shall be assigned respectively the first, second, and third rank of excellence, in speaking. The assignment is made by a committee appointed for the purpose and after trial at a public exhibition given on the Monday before commencement.

The competitors must be members of the Sophomore Class; they may declaim pieces in prose or verse, selected from English authors, but their selection must be approved by the Professor of Rhetoric; they must enter their names with this Professor not later than on the tenth day before the exhibition.

The Committee of Award will consist of five members and will be formed as follows: the Professor or Instructor in Elocution, who will be the Chairman, two persons elected by the Corporation, also two elected by the Sophomore Class, during the first term of the year, it being understood that no one who is or has been a member of that class is eligible.

The Committee of Award for 1879 consisted of the Professor of Rhetoric, Arnold B. Chace, A. B., J. C. Greenough, A. M., Rev. J. G. Vose, D. D., Rev. Elias H. Johnson, D. D.

They awarded the Prizes as follows:

The First, to WILLIAM SHEAFE CHASE.

The Second, to JOHN MURRAY MARSHALL.

The Third, to BENJAMIN BARKER, Jr.

The Howell Premium. This fund, amounting to one thousand dollars, was founded by the late Gamaliel Lyman Dwight. The

income is given, at the *close of the first half of the Junior year*, to the student "who having a good record of deportment, has the highest rank in Mathematics and Natural Philosophy."

For the year 1877–8 this Premium was awarded (February, 1879) to

FRANK LUSCOMBE TINKHAM.

The Dunn Premium. This fund, amounting to something over eight hundred dollars, was founded by pupils and friends of the late Prof. Robinson P. Dunn, D. D., the income to be given at *the end of the Junior year*, to the student having the highest standing in rhetorical studies.

For the year 1878–9 this premium was awarded to

WILLIAM HERBERT PERRY FAUNCE.

Class of 1873 Fund. This fund, amounting to five hundred dollars, was presented to the University by THE CLASS OF 1873, on the condition that its income should be devoted to constituting a prize for an Essay. The prize is to be annually offered for competition to members of the Senior Class, at such time and in such manner as the Faculty shall determine. The conditions of the competition will be announced hereafter.

The subject assigned in January, 1879, was

"*French and English colonization in the New World.*"

On Commencement Day, June 18, 1879, the President announced the prize as assigned to the essay written by

CHARLES HENRY JAMES DOUGLAS.

The Philadelphia Alumni Scholarship. This Scholarship has been created by the gift, from the "Philadelphia Alumni Association

of Brown University," of the sum of fifteen hundred dollars. The award of this scholarship is to be in accordance with the following conditions:

"1st. That the scholarship be not confined to candidates for any one calling, or to the members of any one denomination."

"2d. That it be conferred on the basis of high attainments, mental and moral, and be, so far as practicable, open to competition, so that the possession of the scholarship shall testify to the qualifications of the possessor, and that it be limited to members of the two higher classes."

COMMENCEMENT HONORS IN THE CLASS OF 1879.

The Valedictory Addresses, WALLACE PETER DICK.
The Salutatory Oration, STEPHEN OSTROM EDWARDS.
The Classical Oration, FRANK ALEXANDER FARNUM.
The Philosophical Oration, JOEL MANN SPENCER, JR.

DEGREES CONFERRED IN 1879.

THE DEGREE OF BACHELOR OF ARTS.

UPON THE FOLLOWING MEMBERS OF THE CLASS OF 1879.

HENRY BURR ANTHONY,
EDWARD ERNEST ATKINSON,
GEORGE FOLGER BARNARD,
CHARLES PATTISON BENNETT,
CHARLES SUMNER BOYER,
WILLIAM POTTER BUFFUM,
NEWTON SHERWOOD CALHOUN,
ALVA EDWIN CARPENTER,
DAVID AUSTEN CHASE,
GEORGE FRANCIS COMSTOCK,
WALLACE PETER DICK,
CHARLES HENRY JAMES DOUGLAS,
JAMES HERVEY EARLE,
GORHAM EASTERBROOK,
STEPHEN OSTROM EDWARDS,
EDWARD FRANCIS ELY,
FRANK ALEXANDER FARNUM,
EDWARD PIKE GREENE,
JOHN JESSE GREENE,
ALBERT GRANGER HARKNESS,
ARTHUR HUDSON HARRINGTON,
STEPHEN GOODWIN HASTINGS,
TRUMAN JOHNSON,
HENRY WEBSTER KEGWIN,
LYMAN WINSLOW KING,
CHARLES HENRY KINNE,
GEORGE IDE MALCOM,
EDWARD SPRAGUE MARSH,
WALTER LEE MUNRO,
FREDERICK EUGENE PARTINGTON,
WILLIAM COOPER READIO,
SAMUEL AUGUSTUS SEVERANCE,
SAMUEL RANDALL SIMMONS, JR.,
LOUIS RHODES SOUTHWORTH,
JOEL MANN SPENCER, JR.,
HOWARD YORK STILLMAN,
ORIN JONES STURGIS,
WILLARD BROOKS TANNER,
WILLIAM RICHMOND TILLINGHAST,
CHARLES JAMES TUCKER,
FRANCIS HUBBARD VIETS,
STEPHEN ALBRO WELCH,
JAMES LEE WELLS,
JUDSON IRVING WOOD.

THE DEGREE OF BACHELOR OF PHILOSOPHY,

UPON THE FOLLOWING MEMBERS OF THE CLASS OF 1879.

EDWARD STOWE ADAMS, ALFRED UPDIKE EDDY,

AND UPON

RALPH THRALL KING, of the Class of 1878.

THE DEGREE OF BACHELOR OF ARTS,

UPON

THOMAS THOMPSON CASWELL, of the Class of 1861,

AND UPON

EDWARD RICHMOND BLANCHARD, of the Class of 1865.

THE DEGREE OF MASTER OF ARTS,

UPON

NATHAN EDWARD GOLDTHWAIT, of the Class of 1852.
JOHN TETLOW, of the Class of 1864.
JOSEPH JACKSON, Jr., of the Class of 1868.
EPHRAIM HAPGOOD, of the Class of 1874.
WILLIAM HENRY SCOTT, of the Class of 1875.

And upon the following members of the Class of 1876,

JOHN JAMES ARNOLD,
WALTER HAMMOND BARNEY,
ALEXANDER BEVAN,
ROWLAND GIBSON HAZARD, 2d,
CHARLES REUBEN HEATH,
DAVID EMORY HOLMAN, Jr.,
EUGENE PRIDE KING,
ALFRED GIDEON LANGLEY,
JOHN MILNE MACKENZIE,
HENRY ALVIN MILLER,
MYRON CLARKE PEASE,
CHARLES HOWARD POOR,
SIDNEY PORTER,
JOHN TAYLOR SHAW,
ALBION TRUE SMITH,
BENJAMIN WEST SMITH,
EDWARD OTIS STANLEY,
BENJAMIN THOMAS,
CYRUS MANCHESTER VAN SLYCK.

THE DEGREE OF MASTER OF ARTS,

UPON

LOUIS HENRY MARVEL, B. P., of the Class of 1867.
CHARLES TABOR CONGDON, of New York.
Rev. JOSIAH TORREY SMITH, an Alumnus of Williams College.

THE DEGREE OF DOCTOR OF LAWS,

UPON

Isaac Ray, M. D., formerly Superintendent of Butler Hospital for the Insane.

THE DEGREE OF DOCTOR OF DIVINITY,

UPON

Professor James Robinson Boise, LL.D., of the Chicago Baptist Theological Seminary.

CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

BROWN UNIVERSITY.

1880-81.

PROVIDENCE:
PRESS OF J. A. & R. A. REID.
1880.

LIBRARY
DEC 10 1890
U. S. BUREAU OF EDUCATION.

Issued, November, 1880.

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1880-81.

1880.	Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
July	..	..	..	..	1	2	3
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1881.	Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
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Dec.	..	..	..	..	1	2	3
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CALENDAR FOR 1880-81.

1880.

September 1, *Wednesday.* Annual Meeting of the Corporation.

September 15. *Wednesday.* **Academic year begins** (third Wednesday in September).

November 25. *Thursday.* Thanksgiving Day. (No College exercises on Thursday, Friday, and Saturday of Thanksgiving week).

Christmas Holidays, from evening of Thursday, December 23, 1880, to evening of Monday, January 3, 1881.

1881.

January 19, 20, 21. *Wednesday, Thursday, Friday.* Semi-Annual Examinations of College classes.

January 24, *Monday.* **Second half-year Begins.**

Spring Recess, Saturday, March 26, to Monday evening, April 4.

April 16, *Saturday.* Junior Exhibition.

May 19, 20, 21, *Thursday, Friday, Saturday.* Examination of Senior Class.

May 30, *Monday.* Decoration Day. No College exercises.

June 7, 8, 9.	*Tuesday, Wednesday, Thursday.* Semi-Annual Examinations of College Classes.
June 10,	*Friday.* Class Day.
June 12.	*Sunday.* Baccalaureate Sermon.
June 13.	*Monday.* Sophomore Prize Declamation.
June 14.	*Tuesday.* Annual Meeting of the Phi Beta Kappa Society, 9.30 A. M.
June 14.	*Tuesday.* Annual Alumni Meeting in Manning Hall, at 4 P. M.
June 15,	*Wednesday.* **One hundred and thirteenth annual Commencement,** (third Wednesday in June).
June 16,	*Thursday.* Meeting of the Corporation.
June 16, 17, 18.	*Thursday, Friday, Saturday.* Examination for admission to College. Candidates assemble at No. 12 University Hall, at 8 o'clock, A. M. They must be in attendance all three days.
	Summer Vacation.
September 7,	*Wednesday.* Annual Meeting of the Corporation in Manning Hall (on the first Wednesday in September).
September 20,	*Tuesday.* Examination of Delinquents in College Studies.
September 20, 21.	*Tuesday, Wednesday.* Examinations for admission.
September 21,	*Wednesday.* **Academic Year Begins.**

CORPORATION.

BOARD OF FELLOWS.

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Professor of the Greek Language and Literature.

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Professor of Agricultural Zoology, and Curator of the Museum.

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Professor of Natural History.

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Assistant Librarian.

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Registrar.

GRADUATE STUDENTS.

James Austin, Jr., A. B.	
Myron Clarke Pease, A. M.,	29 Benevolent St.
John Hosea Washburne, S. B.,	East Street.

UNDERGRADUATES.

SENIOR CLASS.

NAME.	RESIDENCE.	ROOM.
Charles Francis Adams,	*New York, N. Y.*,	Hope, 40.
William Cotter Baker,	*Wickford*,	University, 34.
Benjamin Barker, Jr.,	*Tiverton*,	270 Benefit St.
George Fremont Bean,	*Warner, N. H.*,	University, 40.
George Bickford Brigham,	*Westboro', Mass.*,	Hope, 9.
Morgan Brooks,	*Boston, Mass.*,	Slater, 1.
Percy Shelley Burbank,	*Providence*,	43 Howell St.
Walter Orestes Cartwright,	*Wakefield, Mass.*,	University, 44.
William Sheafe Chase,	*Providence*,	96 Mathewson St.
Charles Walter Connell,	*Fall River, Mass.*,	Hope, 6.
Howard Potter Cornell,	*Providence*,	165 Angell St.
Samuel Winslow Culver,	*Providence*,	156 Point St.
William Frederick Denfeld,	*Westboro', Mass.*,	Hope, 36.
Frank Herbert Gifford,	*New Bedford, Mass.*,	21 George St.
Paul Coffin Gifford,	*Olneyville*,	University, 45.
John Russell Gladding,	*Providence*,	43 Chestnut St.
Frederic Hayes,	*Providence*,	344 Benefit St.

NAME.	RESIDENCE.	ROOM.
Frederick Rowland Hazard,	*Peacedale*,	Slater, 6.
Alfred Howland Hood,	*Somerset, Mass.*,	University, 31.
Charles Evans Hughes,	*Brooklyn, N. Y.*,	Hope, 22.
Samuel Lafayette Irons,	*Harmony*,	University. 46.
Howard Clifton Jewett,	*Haverhill, Mass.*,	Hope, 28.
Jacob Kettner,	*Providence*,	15 Barclay St.
William Coffin Ladd,	*Brooklyn, N. Y.*,	Hope, 25.
John Murray Marshall,	*Worcester, Mass.*,	Hope, 28.
Franklin Garrett McKeever,	*Wilmington, Del.*,	University, 47.
Charles Carney Mumford,	*Providence*,	37 Ring St.
William Ellery Peckham,	*Narragansett Pier*,	Hope, 1.
Henry Clay Peepels,	*Pittsburg, Penn.*,	University, 54.
Cornelius Welles Pendleton,	*Wakefield*,	Hope, 22.
William Llewellyn Phillips,	*Nashville, Tenn.*,	Hope, 25.
Horace Wadleigh Rice,	*Westboro', Mass.*,	Hope, 36.
Wilber Taylor Rice,	*South Ashfield, Mass.*,	Hope, 15.
Henry Brayton Rose,	*Providence*,	University, 22.
Horace Ward Sheldon,	*Yankton, Dak.*,	Pawtucket.
William Baird Silvey,	*Richmond, Va.*,	10 Congdon St.
James Davis Simmons,	*Providence*,	34 Benevolent St.
Edward Williams Taft,	*Pawtuxet*,	Pawtuxet.
John Alvah Taylor,	*Franklin Falls, N. H.*,	University, 31.
Edwin Lajette Thurston,	*Providence*,	Hope, 2.
Walter James Town,	*Providence*,	436 Pine St.
Daniel Sumner Willson,	*Rochdale, Mass.*,	Hope, 45.

Select Course.

Arthur Bateman Corthell,	*Bristol*,	Hope, 2.

JUNIOR CLASS.

NAME.	RESIDENCE.	ROOM.
Ira Richard Allen,	*Fair Haven, Vt.,*	Slater, 4.
Fred Clarence Angevine,	*Poultney, Vt.,*	University, 30.
Charles Lincoln Bartlett,	*Le Roy, N. Y.,*	Hope, 23.
Edward Clarence Bixby,	*Providence,*	68 Point St.
William Benezet Bogert,	*Providence,*	58 George St.
Simeon Borden, Jr.,	*Fall River, Mass.,*	Hope, 5.
Benjamin Ellwood Bowerman,	*Portsmouth,*	University, 37.
William Bray,	*Red Bank, N. J.,*	University, 23.
Frank Fontelle Brigham,	*Westboro', Mass.,*	Hope, 9.
William Albert Buxton,	*Londonderry, Vt.,*	University, 41.
Charles Stillman Caswell,	*East Douglas, Mass.,*	University, 56.
Stewart Chaplin,	*Boston, Mass.,*	Hope, 12.
Harry Clinton Clark,	*Providence,*	716 High St.
Edward Benjamin Cole,	*Boston, Mass.,*	Slater, 1.
Frank Howard Davis,	*Lynn, Mass.,*	Hope, 10.
Asa Reed Dilts, Jr.,	*Raritan, N. J.,*	University, 23.
Frank Adelbert Everett,	*Franklin, Mass.,*	Hope, 43.
Samuel Walter Foss,	*Portsmouth, N. H.,*	26 Waverly St.
Austin Powers Foster,	*S. Abington, Mass.,*	University, 58.

NAME.	RESIDENCE.	ROOM.
William Allen Francis,	*Fall River, Mass.*,	Hope, 21.
Newton Stone Fuller,	*Providence*,	48 Transit St.
Arthur Edward Gage,	*Portsmouth, N. H.*,	26 Waverly St.
Fred Luther Gamage,	*Westboro', Mass.*,	Hope, 27.
Albert Greene,	*Westerly*,	Hope, 47.
John Stimson Greene,	*Providence*,	Hope, 47.
Elmer Samuel Hosmer,	*Clinton, Mass.*,	Hope, 38.
George Rice Hovey,	*Newton Centre, Mass.*,	Hope, 10.
George Huntington,	*Greenville, Mich.*,	University, 19.
Walter Ballou Jacobs,	*Providence*,	26 Peace St.
William Everett Jillson,	*Providence*,	76 Prospect St.
Julius Arthur Johnson,	*Beaver Dam, Wis.*,	University, 53.
William Robert Keegan,	*Providence*,	Prairie Ave. and Dudley St.
Arthur Thomas Lawton,	*Jewett City, Conn.*,	University, 41.
William Turell Learned,	*Fall River, Mass.*,	Slater, 11.
William Clawson Lott,	*Bridgeton, N. J.*,	Slater, 15.
Herbert McIntosh,	*Doylestown, Penn.*,	Hope, 42.
Winfield George Merrill,	*Lawrence, Mass.*,	Slater, 3.
Osmon Cleander Baker Nason,	*Woonsocket*,	University, 19.
William Richard Park,	*Plymouth, N. H.*,	Hope, 35.
Charles Hart Payne,	*Providence*,	Slater, 16.
John Milton Payne,	*Pawtucket*,	Pawtucket.
William Henry Pomeroy,	*Springfield, Mass.*,	Hope, 39.
James Richardson, Jr.,	*Providence*,	Slater, 9.
John Augustine Sanford,	*Attleboro', Mass.*,	Hope, 42.
Nathaniel Seabury,	*Providence*,	Slater, 16.
Thomas Jefferson Shiel,	*Philadelphia, Penn.*,	Hope, 46.
James Hovey Spencer,	*Fair Haven, Vt.*,	Hope, 39.
George Spring Taft,	*Uxbridge, Mass.*,	Hope, 8.
Paul Edward Taylor,	*Providence*,	65 Charles Field St.
Herbert Edgar Thayer,	*Foxboro', Mass.*,	Hope, 43.
Charles Rawson Thurston,	*Newport*,	Hope, 26.
Henry Anthony Tillinghast,	*Providence*,	108 Angell St.

NAME.	RESIDENCE.	ROOM.
William Howe Tolman,	*Pawtucket,*	University, 19.
Henry Anthony Townsend,	*Providence,*	103 Bowen St.
William Bullock Waterman,	*Providence,*	72 Meeting St.
John Loy Williams,	*Philadelphia, Penn.,*	University, 53.

Select Course.

Frederick Winthrop Phillips,	*Providence,*	331 Broad St.
Frederick Eugene Shaw,	*Valley Falls,*	Valley Falls.

SOPHOMORE CLASS.

NAME.	RESIDENCE.	ROOM.
John Aldrich,	*Westerly*,	University, 20.
Edwin Pierce Allen,	*Providence*,	97 Benevolent St.
Alfred Williams Anthony,	*Providence*,	Slater, 13.
Arthur Eaton Baker,	*Winchester, Mass.*,	University, 50.
Sharonton Hale Baker,	*Dover, N. H.*,	University, 56.
Abram Barker,	*Tiverton*,	Slater, 7.
Ira Barrows,	*North Attleboro', Mass.*,	17 Angell St.
Amasa Junius Parker Bishop,	*Le Roy, N. Y.*,	Hope, 23.
Nathaniel Brown Blaisdell,	*Cranston*,	Oak Lawn.
Herbert Anthony Bowen,	*Providence*,	65 Orms St.
Richmond Brewer,	*Westerly*,	Slater, 19.
James Albert Brown,	*Brooklyn, Conn.*,	University, 49.
Frank Eli Brooks,	*Globe Village, Mass.*,	University, 20.
Walter Valentine Burdett,	*Clinton, Mass.*,	Hope, 48.
Isaac Bronson Burgess,	*Hampton Falls, N. H.*,	University, 49.
Jonathan Irvin Chaffee,	*East Providence*,	East Providence.
Lewis Aden Cook,	*Stamford, Vt.*,	University, 33.
Wilson Gardner Crosby,	*Edgartown, Mass.*,	04 John St.
James Henry Davenport,	*Fall River, Mass.*,	Slater, 20.
Lewis Dexter, Jr.,	*Nayatt*,	Slater, 13.
Elias Fasset Dunlevy,	*Chicago, Ill.*,	Slater, 4.
Elisha Dyer, 3d,	*Providence*,	Slater, 9.
Joel Nelson Eno,	*Willington, Conn.*,	Hope, 20.

NAME.	RESIDENCE.	ROOM.
Alfred William Fitz,	*Chelsea, Mass.*,	Slater, 5.
Clarence Gardner,	*Marblehead, Mass.*,	University, 36.
Moses Clement Gile,	*East Haverhill, Mass.*,	University, 57.
Henry Stedman Graves,	*Haverhill, Mass.*,	Hope, 6.
Ray Woodville Greene,	*Westerly*,	Hope, 45.
Samuel Stuart Greene.	*Providence*,	37 So. Angell St.
Clifford Angell Harrington,	*Providence*,	12 Sycamore St.
William Harris,	*Providence*,	60 Bowen St.
Nicholas Hatheway, Jr.,	*Fall River, Mass.*,	Hope, 41.
Joseph Melzar Hobbs,	*Boston, Mass.*,	Hope, 30.
Charles Gregory King, Jr.,	*Cleveland, O.*,	Slater, 14.
Herbert Huntington Lamson,	*Winsor, Vt.*,	Hope, 15.
Simeon Ryarson Leach,	*Jamaica Plain, Mass.*,	439 Benefit St.
Alexander Duncan Leete,	*Providence*,	100 Broadway.
Charles Melvin Leonard,	*Middleboro', Mass.*,	Slater, 15.
Isa Henry Leveen,	*Portsmouth, N. H.*,	Hope, 20.
Emory Stevens Lyon,	*Providence*,	9 Young Orchard Ave.
Charles Luther,	*Fall River, Mass.*,	Hope, 21.
Henry Parker Manning,	*Raynham, Mass.*,	University, 52.
Leavitt King Merrill,	*St. Paul, Minn.*,	29 Benevolent St.
Ralph Metcalf,	*Providence*,	391 No. Main St.
Eugene Poor Mitchell,	*Hyde Park, Ill.*,	Hope, 13.
Arthur May Mowry,	*Providence*,	Slater, 18.
Horatio Rogers Nightingale, Jr.,	*Providence*,	Slater, 7.
Howard Willis Preston,	*Providence*,	Slater, 13.
Michael Joseph Quigley,	*Valley Falls*,	Valley Falls.
Charles Monroe Sheldon,	*Yankton, Dak.*,	University, 57.
Frank Lucius Shepardson,	*Rehoboth, Mass.*,	Hope, 46.
Richard Otis Sherwood,	*Middletown*,	Hope, 20.
William Edward Simonds,	*Providence*,	79 Williams St.
George Edward Smith,	*Tiverton*,	Slater, 20.
Sylvester Miller Snow,	*Providence*,	Cor. Waterman and Gano Sts.
Edward Casper Stokes,	*Millville, N. J.*,	439 Benefit St.
Martin Walter Twing,	*Monterey, Mass.*,	University, 52.
Frederic Ellsworth Whittemore,	*Ashland, Mass.*,	27 Wood St.
Charles William Willett,	*Suffield, Conn.*,	University, 46.
Clarence Otis Williams,	*Providence*,	31 Hammond St.

NAME.	RESIDENCE.	ROOM.
William Frederic Williams,	*Bristol*,	Hope, 7.
Clarence Edward Wilson,	*East Providence*,	East Providence.
Charles Baldwin Wood,	*Hyde Park, Ill.*,	Hope, 13.

Select Course.

Marion Burrows Denison,	*Norwich, Conn.*,	11 Thomas St.
Fred Van Meter,	*Rome, Italy*,	University, 24.
Lucius Pond Ordway,	*Providence*,	272 Benefit St.
William Edward White,	*Milner, Ga.*,	439 Benefit St.

FRESHMAN CLASS.

NAME.	RESIDENCE.	ROOM.
Lyndon Laroy Anderstrom,	*Bristol*,	Hope, 18.
Frank Howard Andrews,	*Providence*,	333 Friendship St.
William Birket Arnold,	*Centreville*,	Slater, 2.
Albert Allison Baker,	*Providence*,	104 Carpenter St.
Charles Lewis Baker,	*Fall River*, *Mass.*,	Slater, 10.
Arthur Channing Barrows,	*Woonsocket*,	Slater, 14.
George Henry Bottum,	*Shaftsbury*, *Vt.*,	Hope, 18.
William Manuel Perez Bowen,	*Providence*,	73 Ring St.
Frank Melville Bronson,	*Putnam*, *Conn.*,	University, 48.
Hermon Carey Bumpus,	*Boston Highlands*, *Mass.*,	University, 24.
George Arnold Carpenter,	*East Providence*,	East Providence.
William Jacob Cloues,	*Charlestown*, *Mass.*,	Hope, 14.
Alfred Dodge Cole,	*Beverly*, *Mass.*,	Hope, 35.
Peter Schenck Conover,	*Holmdel*, *N. J.*,	Slater, 8.
John Daboll,	*Providence*,	112 Daboll St.
John George Doron,	*Mt. Holly*, *N. J.*,	Slater, 17.
Everett Brownell Durfee,	*Fall River*, *Mass.*,	Slater, 2.
Claude Joseph Farnsworth,	*Pawtucket*,	Pawtucket.
Robert Henry Ferguson,	*Boston*, *Mass.*,	University, 35.
Edwin Charles Gammage,	*Woonsocket*,	University, 51.
Arthur Amory Gammell,	*Providence*,	Slater, 9.
George Ellery Gardner,	*Wickford*,	University, 30.
Henry Brayton Gardner,	*Providence*,	260 Waterman St.
George Coleman Gow,	*Brattleboro'*, *Vt.*,	University, 23.
Charles William Greene,	*Providence*,	38 Cooke St.

NAME.	RESIDENCE.	ROOM.
Robert Warren Greene,	*Providence*,	53 Lawrence St.
Harry Hathaway Hammond,	*Providence*,	29 Angell St.
Edwin Bates Harvey,	*Providence*,	229 Fountain St.
Daniel Lyman Hazard,	*Narragansett Pier*,	Hope, 32.
Paul Henson,	*Philadelphia, Penn.*,	Slater, 17.
Ira Charles Hersey,	*Foxboro', Mass.*,	281 Pine St.
Leonidas Raymond Higgins,	*Flemington, N. J.*,	Hope, 44.
Henry Russell Hitchcock,	*Foxboro', Mass.*,	Hope, 48.
Augustus Lawrence Holmes,	*Attleboro', Mass.*,	Attleboro'.
Albert Harris Howard,	*Providence*,	Hope, 7.
Willie Clarence Ingalls,	*Putney, Vt.*,	Hope, 29.
James Lawrence Jencks,	*Pawtucket*,	Pawtucket.
James Wager Johnson,	*New York, N. Y.*,	14 George St.
Joseph Harris Johnson,	*Providence*,	45 Mawney St.
Benjamin Willey Lightburn,	*West Newton, Penn.*,	University 48.
George Albert Loomis,	*East Greenwich*,	East Greenwich.
Frederic Newton Luther,	*Providence*,	13 Dudley St.
Alfred Earle Manchester,	*Providence*,	3 America St.
Stephen Elmer Mann,	*Fall River, Mass.*,	Slater, 10.
Manton Bradley Metcalf,	*Wanskuck*,	Slater, 7.
Harold Metcalf,	*Providence*,	127 Smith St.
Winthrop Marshall Munro,	*Bristol*,	Hope, 23.
Andrew Newall,	*Westerly*,	Hope, 16.
George Hayward Nichols,	*Providence*,	364 Potter's Ave.
Clement Dietrich O'Leary,	*Providence*,	95 Washington St.
Otis Everett Randall,	*North Stonington, Conn.*,	Hope, 16.
Abbott Barnes Rice,	*Hopkinton, Mass.*,	University, 42.
Augustus Erving Scoville,	*Bridgeport, Conn.*,	Hope, 14.
Volney Skinner,	*Watertown, Mass.*,	Hope, 31.
Edward Presbury Smith,	*Vineyard Haven, Mass.*,	Hope, 19.
Frank Edwin Sweet,	*Pawtucket*,	18 Nickerson St.
Theodore Foster Tillinghast,	*Providence*,	108 Angell St.
Harry Marston Trask,	*Bridgeton, N. J.*,	Slater, 8.
Herbert Osgood True,	*Antrim, N. H.*,	Hope, 31.
Edward Arthur Tuck,	*Milford, N. H.*,	Hope, 24.
Edward Pratt Tuller,	*Hartford, Conn.*,	Hope, 11.
George Alfred Tyzzer,	*Wakefield, Mass.*,	University, 44.
Charles Russell Upton,	*Lowell, Mass.*,	University, 38.

NAME.	RESIDENCE.	ROOM.
Josiah Howe Vose,	*Providence*,	Hope, 23.
George Bulkeley Wakeman,	*Moodus, Conn.*,	Hope, 44.
Allan Temple White,	*Winchendon, Mass.*,	Hope, 24.
Ernest G. Wightman,	*Taunton, Mass.*,	Slater, 19.
Irvah Lester Winter,	*Worcester, Mass.*,	Hope, 19.
Thomas Weston Wood, Jr.,	*Newport*,	40 Angell St.

Select Course.

Michael Joseph Harson,	*Providence*,	49 Chestnut St.
Edwin Lehman Johnson,	*Memphis, Tenn.*,	85 William St.
Charles Tilton Kamm,	*Portland, Oregon*,	Slater, 12.
Richard Lamb,	*Norfolk, Va.*,	79 William St.
Marshall Augustus Newell,	*San Francisco, Cal.*,	128 Broadway.
Samuel Slater,	*Providence*,	66 Benefit St.
Charles Horace Wheeler,	*Providence*,	96 Doyle Ave.

SUMMARY.

Graduate Students	3
Seniors	43
Juniors	58
Sophomores	67
Freshmen	76
Total	247

TIME AND CONDITIONS OF ADMISSION.

The regular examination for admission to the Freshman Class will take place on Thursday, Friday, and Saturday of Commencement week, June 16, 17, and 18, 1881, beginning at 8 o'clock, A. M., on Thursday. The candidates will assemble in No. 12, University Hall; and *they must be in attendance during the three days.*

There will be a second examination on Tuesday and Wednesday, Sept. 20 and 21, 1881, beginning at 8 o'clock, A. M. Applicants must be in attendance both days.

For admission to Advanced Standing, candidates must pass a general examination in the studies already pursued by the class which they propose to enter.

No student can be admitted as a candidate for matriculation, unless he bring suitable testimonials of good moral character; and if he come from another college or an academy, he must also present a certificate of good standing in the institution which he has left, and of regular dismission from it.

For the Course for the Degree of Bachelor of Arts.

Candidates for admission to the Freshman Class are examined in the following subjects; but real equivalents will be received for any of the Latin or Greek works mentioned:

(*Teachers in preparatory schools are requested not to employ in their classes the works assigned for use in College.*)

I. **Greek.** 1. Greek Grammar (Hadley's is preferred). 2. The Syntax and Greek Selections in Harkness' "First Greek Book," or an equivalent from any other Greek Reader. 3. The whole of Xenophon's Anabasis, or *five* books of the Anabasis and *two* books of Homer; the Odyssey is preferred. 4. The first *twenty* exercises of Arnold's Greek Prose Composition, or the first *twenty-five* exercises of Jones' Greek Prose Composition.

II. **Latin.** 5. Latin Grammar (Harkness' Grammar is preferred). 6. *Five* books of Caesar's Commentaries, or *three* books of Caesar and the *Catiline* of Sallust. 7. The *first six* books of Virgil's Aeneid, and thirty-five hundred lines of Ovid; as an equivalent for Ovid, either the *last six* books of the Aeneid, or the Bucolics and Georgics. 8. Seven Orations of Cicero, including the Manilian law. 9. Parts I. and II. of Harkness' Latin Composition.

III. **Mathematics.** 10. Arithmetic, including Arithmetical and Geometrical Progression, the use of the Binomial Formula, and the Metric system of weights and measures. 11. Algebra in Equations of the First and of the Second Degree. 12. Plane Geometry.

IV. **English.** 13. Grammatical Analysis of Shakespeare's Richard II. Clark and Wright's, Rolfe's, or Hudson's edition of this play may be studied. 14. English Composition. Candidates will be required to write in correct English, a composition on one of the characters in Richard II.

V. French. 15. Otto's French Grammar, Part I., including *the Reading lessons.* (An additional examination is offered to candidates desiring to enter the advanced Division of the Freshman class in French.)

In all these branches, candidates will be examined both orally and by writing.

Preliminary Examinations.

In certain of the Preparatory studies, candidates may be examined one year before the time at which they intend to apply for admission to the Freshman Class. This examination will be held in June only. The subjects for this earlier examination will be the following:

(1.) Greek Grammar.

(2.) The Syntax and Greek selections in Harkness' "First Greek Book," or an equivalent from any other Greek Reader.

(3.) Three books of Xenophon's Anabasis.

(4.) Latin Grammar.

(5.) Five books of Caesar, and either thirty-five hundred lines of Ovid or seven orations of Cicero; or Caesar and six books of the Aeneid.

(6.) Arithmetic, including the Metric system of weights and measures.

For the Courses for the Degree of Bachelor of Philosophy.

There are at present three parallel courses of instruction of Candidates for the degree of Bachelor of Philosophy, each course extending through a period of four years. Two of these courses include classical studies; the third omits them, and substitutes a larger amount of scientific studies.

Candidates for admission to a course including *Greek*, are examined in all the Greek subjects specified on page 26. They are also examined in all the subjects in the list below (p. 28).

Candidates for admission to a course including *Latin*, are examined in all the Latin subjects specified on page 26. They are also examined in all the subjects (except the Latin) in the list below.

Candidates for admission to the course *omitting* classical studies, are examined in all the following subjects:

I. Latin.

1. *Five* books of Caesar, or its equivalent in Cicero or in Virgil.

II. Mathematics.

2. Arithmetic, including Arithmetical and Geometrical Progression, the use of the Binomial Formula, and the Metric system of Weights and Measures. 3. Algebra in Equations of the First and of the Second Degree. 4. Plane Geometry.

III. English.

5. Grammatical analysis of Shakespeare's Richard II. Clark and Wright's, Rolfe's or Hudson's edition of this play may be studied. 6. English Composition. Candidates will be required to write in correct English a composition on one of the characters of Richard II.

IV. French.

8. Otto's French Grammar, Part I., including *the Reading lessons.* (An additional examination is offered to candidates desiring to enter the advanced Division of the Freshman class in French.)

In all these branches, candidates will be examined both orally and by writing.

SELECT COURSES.

Students who wish to pursue a Select Course, without entering as candidates for a degree, must be examined in such subjects as are preliminary to the studies that they desire to pursue in College.

COURSES OF INSTRUCTION.

FIRST: FOR THE DEGREE OF BACHELOR OF ARTS.

FRESHMAN CLASS.

First Half-Year.

1. *Greek.* (*a*) Felton's Greek Historians. — (*b*) Arnold's Greek Prose Composition. — (*c*) Smith's History of Greece. *Four hours a week.*
2. *Latin.* (*a*) Livy (Lincoln's Selections), Books I. II. XXI. — (*b*) Harkness's Latin Composition, Part III. — (*c*) History of Rome. *Five hours a week.*
3. *Mathematics.* Algebra, from Quadratic Equations. *Five hours a week.*
4. *French.* (*a*) First Division. The *Télémaque* of Fénelon. — (*b*) Second Division. Otto's Grammar, Part II. *Two hours a week.*
5. *Hygiene.* A Course of Lectures.

Second Half-Year.

1. *Greek.* (*a*) Homer's Iliad. — (*b*) Arnold's Greek Prose Composition completed. *Five hours a week.*
2. *Latin.* (*a*) Cicero de Senectute. — (*b*) De Amicitia. — (*c*) Selections from Cicero's Epistles. (*d*) Exercises in Latin Composition. *Four hours a week.*
3. *Mathematics.* (*a*) Olney's Geometry. — (*b*) Olney's Advanced Course in Geometry, Solid and Spherical. — (*c*) Plane and Spherical Trigonometry. *Five hours a week.*
4. *French.* (*a*) First Division. Racine's *Athalie* and *Esther*. — (*b*) Second Division. The *Napoléon* of Dumas. *Two hours a week.*

SOPHOMORE CLASS.

First Half-Year.

1. *Greek.* Demosthenes. — Public Orations. *Three hours a week.*
2. *Latin.* (*a*) Horace (Lincoln's Edition). — (*b*) Exercises in Latin Composition. *Two hours a week.*
3. *Mathematics.* (*a*) Olney's General Geometry and Calculus. — (*b*) Lectures on Spherical Astronomy. *Five hours a week.*
4. *French.* (*a*) First Division. Corneille's *Horace, Cid, Cinna, Polyeucte;* and Marcillac's *Histoire de la Littérature Française.* — (*b*) Second Division. Racine's *Athalie.* *Three hours a week.*
5. *Rhetoric.* (*a*) Lectures on English Composition. Text-Book, Hill's Principles of Rhetoric. *Two hours a week.* (*b*) Essays. Principal Books of Reference, Campbell's Philosophy of Rhetoric, Whately's Elements of Rhetoric, Kames' Elements of Criticism, and Hill's Science of Rhetoric.
6. *Elocution.* Lectures and Exercises. *Once a week.* Principal Works of Reference, Rush "On the Voice;" "The Throat and Voice," Cohen; "The Speaking Voice," Hullah.

Second Half-Year.

1. *Greek.* (*a*) Sophocles. — (*b*) Lectures. *Two hours a week.*
2. *Latin.* (*a*) Tacitus. — (*b*) Exercises in Latin Composition. *Three hours a week.*
3. *Mechanics.* (*a*) Peck's Mechanics. *Five hours a week.*
4. *Rhetoric.* (*a*) Lectures in English Composition. Text-Book, Hill's Principles of Rhetoric. *Two hours a week.* (*b*) Essays.
5. *Elocution.* Lectures and Exercises, with Declamations. *One hour a week.*

Also one of the following elective studies:

French. (*a*) Comedies of Moilère. — (*b*) Lectures. *Three hours a week.*

or

German. (*a*) Whitney's Grammar. — (*b*) Joynes' Reader. *Three hours a week.*

JUNIOR CLASS.

First Half-Year.

1. *Rhetoric.* (*a*) Lectures on the English Language. Manual of English Literature, with Readings from authors. *Three hours a week.* (*b*) Essays and Orations, *Saturdays.* Principal authors referred to: (1) In Language, Marsh, Müller, Whitney, and Sayce. (2) In Literature, Taine, Arnold, Morley, and Shaw.

2. *Elocution.* Private Rehearsals of Orations.

3. *Astronomy.* Loomis' Astronomy, with Lectures. *Three hours a week.*

4. *Chemistry.* Lectures. The lectures are illustrated by experiments, and colored charts, and black-board exercises. Books of reference: Fownes' Chemistry, Barker's Chemistry, Roscoe's Chemistry. *Three hours a week.*

5. *Physics.* (*a*) Lectures, together with experiments, also (*b*) Recitations, both written and oral. Books of reference: Atkinson's Ganot, Deschanel's Natural Philosophy, Silliman's Physics. *Five hours a week.*

One of the following elective courses:

German. Schiller's *Jungfrau von Orleans. Two hours a week.*

Latin. (*a*) Horace's Ars Poetica. — (*b*) Selections from the Epistles. *Two hours a week.*

Greek. Two hours a week.

Civil Engineering. Two hours a week.

Second Half-Year.

1. *Logic.* Text-Book, Jevons' Logic. Principal authors referred to in Logic: Sir W. Hamilton, De Morgan, Thomas, Mill, Mansel, Bowen, and Fowler. *Three hours a week.*

2. *Physiology.* Lectures. Books of reference: in Anatomy, Quain and Gray; in Physiology, Dalton, Marshall, and Foster; in Hygiene, Buck. *Five hours a week.*

3. *Rhetoric.* (*a*) Manual of English Literature, study of authors. *Two hours a week.* (*b*) Essays and Orations, *Saturdays.*

4. *Elocution.* Private rehearsals of Orations.

A sufficient number of the following elective courses to make up *six hours a week.*

Latin. Juvenal, Terence, Latin Composition. Lectures. *Two hours a week.*

Greek. Plato. *Two hours a week.*

German. Lessing's *Emilia Galotti. Two hours a week.*

Zoology. (*a*) Lectures. *Two hours a week.* (*b*) Laboratory work. *Two hours a week.* Books of reference, Packard's Zoology. Huxley's Anatomy of the Invertebrates, Huxley's Anatomy of the Vertebrates, Gegenbaur's Elements of Comparative Anatomy. Packard's Outlines of Comparative Embryology.

Political Economy. Lectures. *Two hours a week.* Mill's Political Economy, Fawcett's Manual, Perry's Political Economy, Walker's Science of Wealth.

Analytical Chemistry. Laboratory practice. *Six hours a week.*

Physics. Laboratory work. *Four hours a week.*

Advanced Mechanics. Two hours a week.

Botany. (*a*) Lectures and field excursions. *Two hours a week.* (*b*) Laboratory work. *Two hours a week.*

Civil Engineering. Two hours a week.

SENIOR CLASS.

First Half-Year.

1. *Intellectual Philosophy.* (*a*) Lectures. — (*b*) Essays by the class. Sir William Hamilton's Lectures on Metaphysics. Mansel's Metaphysics. Wayland's Intellectual Philosophy. Porter's Human Intellect. Ueberweg's History of Philosophy. *Five hours a week.*

2. *History.* Mediaeval History, from the fall of the Western Empire to the Reformation — (*a*) by lectures — (*b*) by abstracts presented by the class. Guizot's European Civilization, Duruy's *Histoire du Moyen Age*, Gibbon's Roman Empire, Hallam's Middle Ages, Milman's Latin Christianity, Bryce's Holy Roman Empire, Kitchin's France, Stubbs' English Constitutional History. *Five hours a week.*

A sufficient number of the following elective courses to make up *six hours a week.*

Roman Law and *French.* *Two hours a week.*

Latin. Lucretius, with Lectures. *Two hours a week.*

Greek. Demosthenes, Oration on the Crown. *Two hours a week.*

German. Goethe's *Iphigenie.* *Two hours a week.*

Analytical Chemistry. Laboratory practice. *Six hours a week.*

Civil Engineering. *Two hours a week.*

Geology. (*a*) Lectures. *Two hours a week.* (*b*) Laboratory work. *Two hours a week.* — Books of reference: Dana's New Text-Book of Geology; Dana's Manual of Geology. Le Conte's Elements of Geology. Nicholson's Ancient Life-History of the Earth.

Second Half-Year.

1. *Moral Philosophy.* (*a*) Lectures, with (*b*) essays by the class. Wayland's Moral Science. Alexander's Moral Science. Kant's Metaphysics of Ethics (Semple's translation). Calderwood's Hand-Book of Moral Philosophy. References to various authors. *Five hours a week.*

Natural Theology, and Evidences of Christianity, by Lectures.

2. *History.* (*a*) Modern History, from the Reformation to the French Revolution. — (*b*) Colonial History. — (*c*) Constitutional History of the United States; by lectures and abstracts. Duruy's *Histoire des Temps Modernes*, Hallam's Constitutional History of England, Stephen's Lectures on the History of France, Woolsey's International Law, Farrar's Manual of the Constitution. The Federalist. *Five hours a week.*

3. *Agricultural Zoology.* (A required course for students on State Scholarships.) *One hour a week.*

A sufficient number of the following elective courses to make up *five hours a week*, for students on State Scholarships, and *six hours a week* for all others.

Lectures on the History of Philosophy. One hour a week.

Latin. Two hours a week.

Greek. Two hours a week.

French. Two hours a week.

German. Goethe's *Faust. Two hours a week.*

Political Economy. Two hours a week.

Botany. (*a*) Lectures. *Two hours a week.* (*b*) Laboratory work. *Two hours a week.*

Civil Engineering. Two hours a week.

Geology, (continued). Lectures; *with a short course on Archæology and Ethnology. One hour a week.*

Analytical Chemistry. Laboratory practice. *Six hours a week.*

International Law. Lectures. *One hour a week.*

SECOND: FOR THE DEGREE OF BACHELOR OF PHILOSOPHY.

The following are the outlines of the courses; but they may be subjected to such modifications as are hereafter found advisable:

Course including an Ancient Language.

FRESHMAN CLASS.

First Half-Year.

1. Greek or Latin, *four hours a week.*
2. Algebra, *five hours a week.*
3. French, *two hours a week.*
4. Plane problems, *three hours a week.*
5. Mechanical drawing, *two hours a week.*
6. Hygiene.

Second Half-Year.

1. Greek or Latin, *five hours a week.*
2. Geometry and Trigonometry, *five hours a week.*
3. French, *two hours a week.*
4. Descriptive Geometry, *three hours a week.*
5. Mechanical drawing, *two hours a week.*

SOPHOMORE CLASS.

First Half-Year.

1. Greek or Latin, *two or three hours a week.*
2. General Geometry and Calculus: Spherical Astronomy, *five hours a week.*
3. French, *three hours a week.*
4. Rhetoric; Essays, *two hours a week.*
5. Elocution, *one hour a week.*
6. Shades and Shadows, *three hours a week.*

Course not including an Ancient Language.

FRESHMAN CLASS.

First Half-Year.

1. Algebra, *five hours a week.*
2. French, *two hours a week.*
3. Biology and Physical Geography, *three hours a week.*
4. Plane problems, *three hours a week.*
5. Mechanical and Free-hand Drawing, *three hours a week.*
6. Hygiene.

Second Half-Year.

1. Geometry and Plane and Spherical Trigonometry, *five hours a week.*
2. French, *two hours a week.*
3. English Language, *three hours a week.*
4. Descriptive Geometry, *two hours a week.*
5. Mechanical and Free-hand Drawing, *three hours a week.*

SOPHOMORE CLASS.

First Half-Year.

1. Analytical Geometry and Calculus, *five hours a week.*
2. Rhetoric; Essays, *two hours a week.*
3. Elocution, *one hour a week.*
4. French, *three hours a week.*
5. Shades and Shadows, *three hours a week.*
6. Linear Perspective, *two hours a week.*

Second Half-Year.

The following required studies:

1. Greek or Latin, *three or two hours a week.*
2. Mechanics, *five hours a week.*
3. Rhetoric and Essays, *two hours a week.*
4. Elocution, *one hour a week.*
5. Either French, *three hours a week*, or German, *three hours a week.*
6. Either Surveying, *three hours a week*, or Applications of Calculus to General Geometry, *two hours a week.*

Course including an Ancient Language.

JUNIOR CLASS.

First Half-Year.

1. Rhetoric and English Literature, *three hours a week.*
2. Elocution.
3. Astronomy, *three hours a week.*
4. Chemistry, *three hours a week.*
5. Physics, *five hours a week.*

A sufficient number of the following elective courses to make up *two hours a week.*

German, *two hours a week.*
Latin, *two hours a week.*
Greek, *two hours a week.*
Civil Engineering, *two hours a week.*

Second Half-Year.

The following required studies:

1. Logic, *three hours a week.*
2. Physiology, *five hours a week.*
3. Rhetoric, *two hours a week.*
4. Elocution.

A sufficient number of the following elective courses to make up *six hours a week.*

Latin, *two hours a week.*
Greek, *two hours a week.*
German, *two hours a week.*
Zoology, *two hours a week.*
Political Economy, *two hours a week.*
Analytical Chemistry, *six hours a week.*
Physics, Laboratory work, *four hours a week.*
Advanced Mechanics, *two hours a week.*
Botany, *four hours a week.*
Civil Engineering, *two hours a week.*

Second Half-Year.

The following required studies:

1. Mechanics, *five hours a week.*
2. Rhetoric, *two hours a week.*
3. Elocution, *one hour a week.*
4. Applications of Calculus to General Geometry, *two hours a week.*
5. French or German, *three hours a week.*
6. Surveying, *three hours a week.*

Course not including an Ancient Language.

JUNIOR CLASS.

First Half-Year.

1. Rhetoric and English Literature, *three hours a week.*
2. Elocution.
3. Astronomy, *three hours a week.*
4. Chemistry, *three hours a week.*
5. Physics, *five hours a week.*

A sufficient number of the following elective courses to make up *two hours a week.*

German, *two hours a week.*
Civil Engineering, *two hours a week.*

Second Half-Year.

The following required studies:

1. Logic, *three hours a week.*
2. Physiology, *five hours a week.*
3. English Language, *two hours a week.*
4. Elocution.

A sufficient number of the following elective courses to make up *six hours a week.*

German, *two hours a week.*
Zoology, *two hours a week.*
Political Economy, *two hours a week.*
Analytical Chemistry, *six hours a week.*
Physics, Laboratory work, *four hours a week.*
Advanced Mechanics, *two hours a week.*
Botany, *four hours a week.*
Civil Engineering, *two hours a week.*

Course including an Ancient Language.

SENIOR CLASS.

First Half-Year.

The following required studies:

1. Intellectual Philosophy, *five hours a week.*
2. History, *five hours a week.*

A sufficient number of the following elective courses to make up *six hours a week.*

- Roman Law and French, *two hours a week.*
- Latin, *two hours a week.*
- Greek, *two hours a week.*
- German, *two hours a week.*
- Analytical Chemistry, *six hours a week.*
- Civil Engineering, *two hours a week.*
- Geology, *four hours a week.*

Second Half-Year.

The following required studies:

1. Moral Philosophy and Natural Theology, *five hours a week.*
2. History, *five hours a week.*
3. Agricultural Zoology. (A required course for students on State Scholarships), *one hour a week.*

A sufficient number of the following elective courses to make up *five hours a week* for students on State Scholarships; and *six hours a week* for all others.

- Lectures on History of Philosophy, *one hour a week.*
- Latin, *two hours a week.*
- Greek, *two hours a week.*
- French, *two hours a week.*
- German, *two hours a week.*
- Political Economy, *two hours a week.*
- Botany, *four hours a week.*
- Civil Engineering, *two hours a week.*
- Geology, *one hour a week.*
- Analytical Chemistry, *six hours a week.*
- International Law, *one hour a week.*

Course not including an Ancient Language.

SENIOR CLASS.

First Half-Year.

The following required studies:

1. Intellectual Philosophy, *five hours a week.*
2. History, *six hours a week.*

A sufficient number of the following elective courses to make up *six hours a week.*

- Roman Law and French, *two hours a week.*
- German, *two hours a week.*
- Analytical Chemistry, *six hours a week.*
- Civil Engineering, *two hours a week.*
- Geology, *four hours a week.*

Second Half-Year.

The following required studies:

1. Moral Philosophy and Natural Theology, *five hours a week.*
2. History, *five hours a week.*
3. Agricultural Zoology. (A required course for students on State Scholarships), *one hour a week.*

A sufficient number of the following elective courses to make up *five hours a week* for students on State Scholarships; and *six hours a week* for all others.

- Lectures on History of Philosophy, *one hour a week.*
- French, *two hours a week.*
- German, *two hours a week.*
- Political Economy, *two hours a week.*
- Botany, *four hours a week.*
- Civil Engineering, *two hours a week.*
- Geology, *one hour a week.*
- Analytical Chemistry, *six hours a week.*
- International Law, *one hour a week.*

DEPARTMENTS OF PRACTICAL SCIENCE.

Departments of Practical Science have been established in the University for the benefit of students who wish to prepare themselves for such pursuits as require especially the knowledge of mathematical and of physical science, and their applications to industrial arts.

In these departments provision has also been made for courses of instruction in "such branches of learning as are related to Agriculture and the Mechanic Arts." This provision has been made in accordance with an "Act of Congress granting lands for the establishing of Agricultural Colleges," and with "Resolutions of the General Assembly of the State of Rhode Island, accepting these lands, and assigning the same to Brown University." Students who enter only for these studies, either in full or in part, are subject to the same conditions of admission as for any select course; and when they have duly pursued such studies, they will be entitled to a certificate stating the time of their University residence, and the amount of their acquisitions. They may, however, pursue these studies in connection with "the regular scientific and classical studies of the University," and when they have so pursued them as to fulfil the requirements for the Degree of Bachelor of Arts or of Bachelor of Philosophy, they will be entitled to these degrees.

I. CHEMISTRY APPLIED TO THE ARTS.

The Chemical Laboratory is open to students (except on Saturdays) from 8.30 A. M. to 2.30 P. M.

It is the design of this department to teach students Analytical chemistry, and then to direct their studies to the practical applications of chemistry. Attention is given to Metallurgy, Pharmacy, Medical chemistry, Agricultural chemistry, and the application of chemistry to manufacturing processes.

The course is not confined to undergraduates; other persons — if prepared to pursue the study to advantage — are admitted to the Laboratory. But a knowledge of the general principles of Chemistry is absolutely necessary to profitable study in this department.

The text-books used are:

Appleton's Qualitative Chemical Analysis, and Appleton's Quantitative Chemical Analysis, Thorpe's Inorganic Chemistry, Thorpe's Chemical Problems, Cairns' Quantitative Analysis.

II. CIVIL ENGINEERING.

The regular course in this department occupies four years, but a longer or shorter course may be pursued, according to the wants or abilities of students. Those who are unable to pursue a full course, will find the studies so arranged that the knowledge and practice acquired in only a partial course will be practical and available. Ample provision will be made for the instruction of any who desire a more extended course than is here indicated, in Engineering and in Higher Mathematics.

The following is the order of study for the regular course:

First Year. Use of Mathematical instruments, including Line drawing, Pen shading, Graphical construction of Plane problems; Free-hand drawing and shading; use of Mathematical tables; Trigonometry, and its application to the measurement of areas; Plane surveying, including the theory and adjustment of instruments, Field practice, Plotting surveys, and Descriptive Geometry.

Second Year. Differential and Integral Calculus; Shades and Shadows and linear Perspective, and Isometrical Drawing.

Third Year. Theory of structure, embracing the construction of foundations, Stone and Brick masonry; and detailed drawings of the same; Calculation and geometrical representation of the strain on trusses and girders; Drawing of Plans, Profiles, Elevations and Sections.

Construction of machinery and bridges, and drawings of the same; Strength of materials used in construction; Estimation of resistance of Friction and rigidity; and Hydraulics, embracing the structure and use of hydraulic machines, the investigation of the laws which govern the flow of water from reservoirs and the flow of water in rivers, canal and conduit pipes, and water used as a motor.

Fourth Year. Weisbach's Mechanics, or Mahan's Civil Engineering.

To pursue this course to the best advantage, the following mathematical studies taught in the University, should be pursued in connection with those above mentioned, viz.: Algebra, Geometry, Plane and Spherical Trigonometry, Analytical Geometry, and Calculus.

Students desiring admission to this course are subjected to an examination on the same amount of Mathematics as is required of candidates entering for a degree.

III. PHYSICS.

The laboratory of the Department of Physics provides instruction during the second half-year to a limited number of students, who show special aptitude for this study, and are desirous of familiarizing themselves with the construction and use of physical apparatus and with the means of investigation.

A course of experiments in Sound, Light, Heat, and Electricity, involving the principal phenomena and most important methods of measurement, has been arranged with reference to the needs of beginners. Apparatus available for more advanced students and for researches, has been purchased during the current year, with the view of meeting the demand for special instruction in Physics.

IV. BOTANY.

Instruction in Botany is given by means of lectures, in which free use is made of the blackboard and diagrams. The course embraces the necessary morphological and physiological subjects,

and is supplemented by practical class-work in which each student employs the dissecting microscope in examining specimens. Great stress is laid upon the importance of drawing from nature, and students are taught to make illustrative sketches.

At the proper season excursions are made, under the guidance of the Instructor, to neighboring points of botanical interest. At such times students are shown how to collect and preserve specimens.

The following works are recommended for reference: Gray's Botanical Text-Book, Gray's Manual of the Northern States, Sachs' Text-Book of Botany, Le Maout and De Caisne's General System of Botany.

Under proper restrictions, the Herbaria are made accessible to students, for the determination and comparison of species; every courtesy will also be extended to visiting botanists who desire to consult them.

The Bailey Herbarium.

This collection, presented by W. Whitman Bailey, B. P., contains 1,800 specimens and about 600 species, American and foreign. Besides the donor's own personal collection, it contains many specimens from the herbarium of Mr. J. L. Queket, the distinguished English microscopist. It is rich in ferns.

Herbarium Olneyanum.

This valuable collection, presented to Brown University by the will of the late Stephen Thayer Olney, of Providence, numbers many thousand specimens; it illustrates American botany, and is particularly rich in the plants of Rhode Island. The specimens are now all well poisoned, and are in good order for consultation.

Mr. Olney's botanical studies, continuing for many years, brought him into relations of active exchange with the leading collectors of this country. He also made large purchases of plants, and thus accumulated a valuable mass of material which it would now be difficult to duplicate. The correspondence which accompanies the herbarium is of great scientific interest, covering as it

does, a period of thirty or more years. Mr. Olney was an acknowledged authority on the difficult genus *Carex*, and his collection of sedges must for a long time remain exceptional. In the last years of his life he began a monograph of *Carex*, the notes of which, and the drawings by Mr. J. H. Emerton, accompany his bequest.

Below are extracts from Mr. Olney's will:

"First. Having given to Brown University my *herbarium*, my *botanical and scientific books*, my *microscopes* — one Chevalier's, the other Smith and Beck's, — *the cases in which the plants and books are contained, and the table* on which the Chevalier microscope is mounted, I hereby direct that in case all these shall not have been delivered to said Brown University, they shall be so soon as said Brown University shall comply with the following conditions of said gift; — First, the said Brown University shall furnish a fire-proof depository for said herbarium, library, microscopes, and other gifts above enumerated, within a year from my decease. Second, The herbarium shall be entitled the '*Herbarium Olneyanum.*' For the increase of this collection by purchases of plants and of scientific books; also by purchase of botanical works, it is my intention to provide. . . .

Whenever a farther balance of $10,000 shall be shown on said income account, then the said sum of $10,000 shall be paid to Brown University as a fund, the income of which shall be spent for an increase of plants and botanical books, donated to said Brown University; whenever a further sum of $25,000 shall be shown on said income account, then the said sum of $25,000 shall be paid to Brown University, for the endowment of a Professorship of Natural History in said institution. One of the duties of the Professor shall be to give regular courses of botanical lectures."

The Bennett Herbarium.

This valuable herbarium is the gift of Mr. James Lawrence Bennett, an accomplished amateur botanist of Providence.

It includes about 13,000 specimens, and has involved thirty years of assiduous labor in its accumulation. American botany is well represented, but the foreign specimens are the more numer-

ous; many of them are derived from remote and, in some cases, almost inaccessible regions of the globe.

The completeness with which the natural orders are illustrated, as well as the wide geographical range exhibited, make this herbarium an important addition to the means of instruction in the University.

V. ZOOLOGY AND GEOLOGY.

Zoology, with especial reference to Palæontology, is taught by lectures, laboratory work (forming a course of comparative anatomy), and by dredging and collecting excursions in Narragansett Bay and near the city, with especial reference to the local fauna.

Instruction in Geology is given by means of lectures and models, laboratory work, and field excursions, with special reference to the geology, structural and economic, of Rhode Island.

During the past three years, important collections of animals, fossils, rocks and ores have been made by Professor Packard, in Montana, Utah, Colorado, Wyoming, and New Mexico. Many of these specimens are used in laboratory instruction. Students have accompanied the Instructor to the Western Territories, and it is proposed to make from year to year similar excursions — to the Western and Southern States — in which a few students may take a part. Important collections of rocks and fossils from South Carolina, Illinois, and different parts of New England, have also been added for laboratory use.

VI. AGRICULTURE.

The course of instruction in Agriculture includes the courses in the preparatory branches, Chemistry and Physics, Botany, Physiology, Zoology, and Comparative Anatomy. It also includes the special lectures on Agriculture. These relate to the study of soils and Applied Economic Zoology. The course of instruction is illustrated by specimens from the Museum of Natural History, and by field excursions. It also includes practical instruction in obtaining and preserving specimens, and in Taxidermy.

MUSEUM OF NATURAL HISTORY AND ETHNOLOGY

IN RHODE ISLAND HALL.

The Museum is under the care of Professor John W. P. Jenks, who has been appointed by the Corporation to be its Curator. The collections it now contains, as classified and arranged by Professor Jenks, are as follows:

1.	In Zoology, including skeletons for Comparative Anatomy,	
	Quadrupeds	150
	Birds (500 mounted)	5,000
	Reptiles and Fishes	600
	Insects	10,000
	Crustaceans	1,000
	Worms	500
	Mollusks	13,000
	Echinoderms	100
	Corals and Hydroids	130
	Sponges	25
2.	In Mineralogy, specimens	9,350
3.	In Geology and Palæontology, specimens	4,500
4.	Botany (miscellaneous collections)	500
	(For account of Herbaria see pp. 41–42.)	
5.	Indian Implements and Relics, specimens	1,000
6.	Implements and curiosities of other uncivilized peoples,	700
7.	Coins and Medals	2,500

LIBRARY.

The University Library is now arranged in the new fire-proof building, erected by the munificence of the late John Carter Brown, A. M.

According to the last annual report of the Library Committee, the University Library consists of above *fifty-two thousand* volumes, and *seventeen thousand* unbound pamphlets. In its early history it received additions in the form of donations and legacies made by friends of the College, both in this country and in England. During the presidency of Dr. Wayland, a permanent

Library fund of Twenty-five thousand dollars (now $27,500) was raised. Books are purchased from the income of this fund, under the direction of a joint committee of six persons, appointed annually by the Corporation and the Faculty of the University.

Upon the Library tables may be found the most important American and foreign periodicals, pertaining to science, history, literature, bibliography, philology and the classics.

During the past year, the resources of the Library have been increased by the addition of a fund of Ten thousand dollars, a bequest of the late Stephen Thayer Olney, of Providence. The income of this fund is to be "spent for an increase of plants and botanical books." The books given by Mr. Olney make a collection of 712 volumes, consisting chiefly of botanical works, but including works on other branches of natural science. (See page 41.)

During the past year the Library has received, among others, gifts of 101 volumes from Mrs. John Carter Brown; 253 volumes from the late Nathan Bishop, LL. D.; 160 volumes and 1,000 unbound pamphlets from the heirs of the late Ex-President Caswell; 12 volumes *Revue de Droit International*, *etc.*, from Hon. William Beach Lawrence, LL. D.

In term-time the Library is open from 10 A. M. to 3 P. M. on every week day except Saturday; on Saturdays it is open from 10 A. M. to 2 P. M. During vacations it is open on Saturdays.

The following are some of the General Regulations, relating to the use of the Library, and adopted by the Corporation, June 20, 1878.

1. It is the desire of the Corporation that so far as may be practicable, the books of the Library shall be consulted and used at the tables, without being taken from the Library building.

2. The Library shall be open not less than four hours a day, except Saturdays, when it shall be closed at twelve. During vacations it shall be open not less than once a week, at such hours as the Library Committee may prescribe.

3. The members of the Corporation, the President, Professors, Instructors, Tutors, Registrar, resident graduates, and all donors to the funds of the University to the amount of five hundred dollars, residing in the City of Providence, together with any others to whom the Corporation or the Library Committee may grant the privilege, shall be

entitled to the use of the Library without expense. The undergraduates shall be entitled to the use of the Library, and shall be charged therefor the sum of five dollars per annum.

4. The privilege of reading or of consulting books in the Library, during Library hours, shall be extended to college graduates generally, to clergymen of every denomination; and to all other persons on whom the Corporation or Library Committee may from time to time confer it.

5. Not more than three volumes at one time shall be allowed to the undergraduates, who may keep the same two weeks, with the privilege of renewal at the discretion of the Librarian.

6. The officers of instruction shall not, without special permission of the Library Committee, be allowed to borrow more than twenty volumes at a time, and they shall not keep the same longer than three months.

7. Borrowers can take books only after they have been charged to them by the Librarian or his Assistant, and if they send for books, they must sign and date an order.

8. For every book not returned at the time specified, the borrower shall pay a fine of ten cents a day until it shall be returned.

9. No person shall lend to any one a library book, or let it go out of his personal custody; and the borrower alone shall be reponsible for the book while it is charged to him.

10. No borrower shall write or mark in a book belonging to the Library, or turn down the leaves of the same.

11. When there are two or more copies of the same book, the least costly or rare shall be loaned first; and the Librarian shall use his discretion in regard to the lending of works not easily replaced.

12. Undergraduates who leave Providence for an absence of more than one week, must first return all borrowed books.

13. All the books, whether in possession of undergraduates, resident graduates, officers of instruction, members of the Corporation, or others, shall be returned to the Library on or before the Wednesday preceding Commencement. Any person who may fail to comply with this requirement, shall pay one dollar for each volume of which he retains possession.

N. B.— Degrees are not granted until the candidate has exhibited to the Registrar a certificate that he has paid all fines incurred, and returned in good order, or replaced, every book that he has borrowed; or, in default thereof, has deposited with the Librarian the full value of it in money.

PUBLIC WORSHIP.

The exercises of every day commence with Prayers in the College Chapel. All Students are also required to attend public worship on Sunday. For this purpose, each one reports to the President, at the beginning of the term, the church which he will attend.

COLLECTION OF PORTRAITS.

Through the liberality of the friends of the College, a Collection of Portraits has been presented to it, and deposited in the Picture Gallery in Rhode Island Hall. The collection includes portraits of benefactors of the University, of some of its former officers, and of men whose names are conspicuous in the earlier or the more recent annals of Rhode Island.

This collection has been enriched during the past year, by the addition of a portrait of the late ALEXIS CASWELL, D. D., LL. D., Ex-President of the University. This portrait, which is life-size, is the gift of the Alumni of the University, and is the work of Mr. John Selinger, of Boston.

GYMNASIUM.

The Corporation makes an appropriation each year for the rent of a Gymnasium Hall, most of the apparatus in which belongs to the University. Students have access to this hall, with the use of all the apparatus in it, on payment of two dollars a year to the keeper of the Gymnasium.

SEMI-ANNUAL EXAMINATIONS.

Examinations of all the classes are held at the close of each half-year.

Some examinations are conducted by writing, some are oral, while in certain cases the same class is subjected to both tests. The maximum mark assigned is 20. If, upon examination in a given study, a student receives a mark which is less than 10, he fails to "pass" in that study, and must prepare himself for a subsequent examination.

Committees of Examinations have been appointed for the several departments as follows:

1. Greek.

Rev. Thatcher Thayer, D. D. — Merrick Lyon, LL. D.
Rev. Heman Lincoln, D. D. — Edward H. Cutler, A. M.
Rev. John B. G. Pidge, A. M.

2. Latin.

Rev. John C. Stockbridge, D. D. — Horatio N. Slater, Jr., A. M.
Lucius O. Rockwood, A. M. — Frederick W. Tilton, A. M.
Charles B. Goff, A. M. — Rev. C. H. Wheeler, A. M.

3. German.

Rev. Alvah Hovey, D. D. — Samuel W. Peckham, A. M.
Stephen H. Arnold, Esq. — Rev. Carl W. Ernst, A. M.
Gustav Radeke, M. D. — Joseph C. Ely, LL. B.

4. French.

William Goddard, A. M. — Edward T. Caswell, M. D.
Edwin M. Snow, M. D. — Howard M. Rice, A. M.
David W. Hoyt, A. M.

5. Rhetoric and English Literature.

Rev. Adoniram J. Gordon, D. D. — Rev. J. G. Vose, D. D.
Alexander Farnum, A. M. — Rev. S. D. Phelps, D. D.
J. Carter Brown Woods, LL. B.

6. Physiology.

Edwin M. Snow, M. D. — J. C. Greenough, A. M.
S. S. Keene, M. D. — Oliver C. Wiggin, M. D.
L. W. Russell, Esq.

7. Physics.

Hon. Rowland Hazard, A. M. — Prof. George I. Chace, LL. D.
William A. Mowry, A. M. — Hon. Samuel Powel.
Arnold B. Chace, A. B. — Prof. John Peirce, A. M.
George H. Corliss, A. M.

8. History and Political Economy.

Hon. Charles S. Bradley, LL. D. — Prof. William Gammell, LL. D.
Hon. John R. Bartlett, A. M. — Rev. Augustus Woodbury, A. M.

9. Intellectual and Moral Philosophy.

Rev. Alva Woods, D. D. — Rowland G. Hazard, LL. D.
Rt. Rev. Thomas M. Clark, D. D. — Prof. George I. Chace, LL. D.
Rev. Alvah Hovey, D. D., LL. D. — Rev. Daniel Leach, D. D.

10. Mathematics and Astronomy.

Zachariah Allen, LL. D. — Charles P. Robinson, A. M.
J. Herbert Shedd, Esq. — Edward Pearce, Jr., A. M.
Emory Lyon, M. D. — Hon. A. E. Burnside, A. M.

11. Chemistry.

Arnold B. Chace, A. B. — Marshall Woods, M. D.
Prof. John Peirce, A. M. — Amasa M. Eaton, LL. B.

12. Logic.

Rev. A. H. Granger, D. D. — Hon. Thomas Durfee, LL. D.
William W. Douglas, LL. B. — Rev. Elias H. Johnson, D. D.

EXPENSES.

The College expenses for the year are as follows:

Tuition, $50 00 per half-year . .	$100 00
Room rent, $10.00 per half-year . .	20 00
(But rooms or suites in Slater Hall vary in price from $25.00 to $155.00 per annum.)	
Use of Library, $2.50 per half-year .	5 00
Registrar's salary, $2.00 per half-year .	4 00
Public fuel, Servants' hire, Printing, } Charged at cost, but average about } .	22 00
	$151 00

If a student occupy a room alone, his rent and servants' hire are doubled.

If a student is matriculated as a candidate for a degree, he is charged a fee of $5.00.

It has been customary to charge the graduating class the expense of its own Commencement exercises. The charge is now $18.00 for each member of the class.

The term bills are paid strictly in advance, at the commencement of each half-year.

Board is not furnished in College. The Registrar keeps a list of the names of families in the city by whom board is furnished to students. The following are the usual rates:

Board, at from $3.00 to $5.00 per week. By the formation of boarding clubs, students are enabled to somewhat reduce their expenses. (The larger proportion of students pay at present under $4.00 per week for board.) Board, with furnished rooms, from $5.00 to $7.00 per week.

The foregoing estimate for tuition does not include the fees for instruction in Analytical Chemistry.

The expenses of a student who takes a course of study of two hours daily, in the Chemical Laboratory, are (for each half-year) as follows:

Tuition	$16 66
Gas, chemicals, etc.	18 34
Breakage (varying with the student's care), about	3 00
	$38 00

Students who take courses of four hours or of six hours daily, pay respectively double or treble the above amounts.

PECUNIARY AID TO STUDENTS.

Scholarships.

Among the various forms of aid offered to students, there are about one hundred scholarships.

There are *sixty-four* Scholarships of One Thousand Dollars each, the income of which is given, under the direction of a committee appointed by the Corporation, to meritorious students who may need pecuniary assistance; *but a scholarship is forfeited if the candidate incurs college censure, or fails to secure at least seventy-five per cent. of the maximum mark.*

The Nicholas Brown Scholarships. Eleven, founded by a bequest made by Nicholas Brown.

The University Scholarships. Four, from College funds appropriated by the Corporation to this use.

The President's Scholarships. Founded by Barnas Sears, when President of the College.

Alva Woods Scholarships. Six, founded by Alva Woods.

James H. Duncan Scholarship. Founded by James H. Duncan.

Isaac Davis Scholarship. Founded by Isaac Davis.

Arnold Whipple Scholarship. Founded in memory of Arnold Whipple, by Mrs. Arnold Whipple.

Ephraim Wheaton Scholarship. Founded by James Wheaton.

Joseph Brown Scholarship. Founded by Mrs. E. B. Rogers.

Gardner Colby Scholarship. Founded by Gardner Colby.

James Y. Smith Scholarship. Founded by James Y. Smith.

S. S. Bradford Scholarships. Two, founded by S. S. Bradford.

Frances R. Arnold Scholarship. Founded by Mrs. Frances R. Arnold.

Cornelia E. Green Scholarship. Founded by Mrs. Cornelia E. Green.

Crocker Scholarship. Founded by Robert H. Ives and Thomas P. Ives.

Clark Scholarship. Founded by Robert H. Ives and Thomas P. Ives.

Albert Day Scholarship. Founded by Albert Day.

Henry P. Kent Scholarship. Founded by Henry P. Kent.

Romeo Elton Scholarship. Founded by Romeo Elton.

Annie E. Waters Scholarships. Five, founded by Mrs. Annie E. Waters.

L. Fairbrother Scholarship. Founded by Mrs. L. Fairbrother.

George Lawton Scholarship. Founded by George Lawton.

John P. Crozer Scholarship. Founded by Mrs. Margaret Bucknell.

Horatio N. Slater Scholarship. Founded by Horatio N. Slater.

Earl P. Mason Scholarship. Founded by Earl P. Mason.

Newport Scholarship. Founded by William Sanford Rogers.

Alexis Caswell Scholarship. Founded by Alexis Caswell.

G. K. and H. A. Pevear Scholarship. Founded by G. K. and H. A. Pevear.

Joseph C. Hartshorn Scholarship. Founded by Joseph C. Hartshorn.

Rogers High School Scholarship. Founded by William Sanford Rogers.

James Wheaton Scholarship. Founded by James Wheaton.

Charles Thurber Scholarship. Founded by Charles Thurber.

Pardon Miller Scholarship. Founded by Mrs. Ann E. Miller.

Hezekiah S. Chase Scholarship. Founded by Hezekiah S. Chase.

William Bucknell Scholarship. Founded by William Bucknell.

Austin Merrick Scholarship. Founded by Mrs. Olive E. Merrick.

Jackson Scholarships. Three, founded by Henry Jackson.

Mumford Scholarship. Founded by Mrs. Louisa D. Mumford.

Henry Clifford Knight Scholarship. Founded by Miss Amelia S. Knight, in memory of her brother, a member of the class of 1875.

Besides the above Scholarships, there are others, the assignment of which is made subject to special provisions. These are as follows:

The Bartlett Scholarship. Founded by Mrs. Elizabeth Slater Bartlett, by a gift of four thousand dollars, the income of which is to be "devoted to the support of one or more students needing pecuniary aid, and giving promise by studious aims and by character and scholarship of rising to distinction and usefulness."

The Glover Scholarships. Founded by a gift of five thousand dollars, from Henry R. Glover, "in memory of his father, Samuel Glover, a graduate of the College, of the class of 1808, and of his brother, Samuel Glover, Jr., of the class of 1839." Assignment is made upon the basis of character and attainments.

The Scholarship of the Class of 1838, of thirty-eight hundred dollars. Founded by members of THE CLASS OF 1838, and also assigned upon the basis of character and scholarship.

Scholarships of the Department of Agriculture. By Resolutions of the General Assembly of the STATE OF RHODE ISLAND, the national grant, "for the benefit of Agriculture and the Mechanic Arts," was given to Brown University; and the fund of fifty thousand dollars, which has accrued from this grant, is by agreement on the part of the University devoted to the education "of scholars, each at the rate of one hundred dollars per annum, to the extent of the entire annual income." Appointments to these scholarships are made, on the nomination of the General Assembly, by the Governor and Secretary of State, in conjunction with the President of the University.

Aid Fund.

A fund of something over eight thousand dollars has been given to the University by two of its friends. The income of this fund is to be applied, — either by loan or by gift, — to the assistance of deserving young men of limited means.

PREMIUMS.

1. For Excellence in Preparatory Studies.

The President's Premiums. These are derived from the income of a fund presented by REV. FRANCIS WAYLAND, D. D., while President of the University. They are awarded to those members of the Freshman class, candidates for the degree of Bachelor of Arts, or of Bachelor of Philosophy, who are found, *upon special examination*, to have attained the highest excellence in the classical studies preparatory to admission to College. They are fixed by statute as follows:

A First Premium of fifteen dollars, and a second of ten dollars, for excellence in the Greek language.

A First Premium of fifteen dollars, and a second of ten dollars, for excellence in the Latin language.

The competitors are examined in the classical studies required as preparatory for admission to the College.

This year (1880), the award of these Premiums was as follows:

Greek.

The First Premium to EDWIN BATES HARVEY, instructed by Merrick Lyon, LL. D., in the University Grammar School.

The Second Premium to FRANK MELVILLE BRONSON, instructed by Francis E. Burnette, A. B., in the Putnam High School, Putnam, Conn.

An additional *Second Premium* to FREDERIC NEWTON LUTHER, instructed by Edward H. Cutler, A. M., in the Providence High School.

Latin.

The First Premium to FRANK MELVILLE BRONSON, instructed by Francis E. Burnette, A. B., in the Putnam High School, Putnam, Conn.

The Second Premium to FREDERIC NEWTON LUTHER, instructed by Edward H. Cutler, A. M., in the Providence High School.

An additional *Second Premium* to ALBERT HARRIS HOWARD, instructed by Charles B. Goff, A. M., in Mowry & Goff's English and Classical School, Providence.

Mathematics.

The Hartshorn Premiums. These are derived from the income of a fund presented by JOSEPH C. HARTSHORN, A. M., a graduate of the class of 1841; the income is appropriated to *three premiums*, viz.:

A First Premium of thirty dollars.

A Second Premium of twenty dollars.

A Third Premium of ten dollars.

These are awarded to those members of the Freshman class,

who are found, upon examination, to have excelled in the preparatory mathematical studies.

This year (1880), these Premiums were awarded as follows:

The First Premium to DANIEL LYMAN HAZARD, instructed by Frank E. Thompson, A. M., in the Rogers High School, Newport, Frederic W. Tilton, A. M, Head master.

The Second Premium to ALBERT HARRIS HOWARD, instructed by Alexander Bevan, A. M., in Mowry & Goff's English and Classical School, Providence.

The Third Premium to JOHN DABOLL, instructed by Benjamin Baker, A. M., in the Providence High School.

II. For Excellence in College Studies.

Carpenter Prizes for Elocution. These are: A First Prize of *sixty* dollars. A Second Prize of *thirty-six* dollars. A Third Prize of *twenty-four* dollars.

They are derived from the income of a fund established by THOMAS CARPENTER. They are awarded annually to the three members of the Sophomore Class, to whom shall be assigned respectively the first, second, and third rank of excellence, in speaking. The assignment is made by a committee appointed for the purpose, and after trial at a public exhibition given on the Monday before Commencement.

The competitors must be members of the Sophomore Class; they may declaim pieces in prose or verse, selected from English authors, but their selection must be approved by the Professor of Rhetoric; they must enter their names with this Professor not later than on the tenth day before the exhibition.

The Committee of Award will consist of five members, and will be formed as follows: the Professor or Instructor in Elocution, who will be the Chairman, two persons elected by the Corporation, also two elected by the Sophomore Class, during the first term of the year, it being understood that no one who is or has been a member of that class is eligible.

The Committee of Award for 1880 consisted of the Professor of Rhetoric, Rev. Daniel Leach, D. D , Rev. John C. Stockbridge, D. D.. Rev. David H. Greer, Hon. Thomas B. Stockwell.

They awarded the prizes as follows:

The First, to Newton Stone Fuller.

The Second, to William Everett Jillson.

The Third, to Fred Luther Gamage.

The Carpenter Premiums. These afford two premiums of sixty dollars each, derived from the income of a fund established by Thomas Carpenter and Lydia Carpenter.

These premiums are assigned at the *end of the Senior year*, to the two members of the Senior class, who, "already on Scholarships, shall, in the judgment of the Faculty, unite in the highest degree the three most important elements of success in life, ability, character, and attainment."

For the year 1879–80, the Carpenter Premiums were awarded to

George Stephen Goodspeed,

and

William Herbert Perry Faunce.

The Howell Premium. This fund, amounting to one thousand dollars, was presented by the late Gamaliel Lyman Dwight. The income is given, at the *close of the first half of the Junior year*, to the student "who, having a good record of deportment, has the highest rank in Mathematics and Natural Philosophy."

For the year 1879–80 this premium was awarded (February, 1880) to

Wilber Taylor Rice.

The Dunn Premium. This fund, amounting to something over eight hundred dollars, was presented by pupils and friends of the late Professor Robinson Potter Dunn, D. D., the income to be

given at *the end of the Junior year*, to the student having the highest standing in rhetorical studies.

For the year 1879–80 this premium was awarded to

CHARLES EVANS HUGHES.

Class of 1873 Fund. This fund, amounting to five hundred dollars, was presented to the University by THE CLASS OF 1873, on the condition that its income should be devoted to constituting a prize for an Essay. The prize is to be annually offered for competition to members of the Senior Class, at such time and in such manner as the Faculty shall determine. The conditions of the competition will be announced hereafter.

The subject assigned in January, 1879, was

"*A critique of Spencer's Data of Ethics.*"

On Commencement Day, June 18, 1879, the President announced the prize as assigned to the essay written by

GEORGE STEPHEN GOODSPEED.

The Philadelphia Alumni Scholarship. This Scholarship has been created by the gift, from the "PHILADELPHIA ALUMNI ASSOCIATION OF BROWN UNIVERSITY," of the sum of fifteen hundred dollars. The award of this scholarship is to be in accordance with the following conditions:

"1st. That the scholarship be not confined to candidates for any one calling, or to the members of any one denomination."

"2d. That it be conferred on the basis of high attainments, mental and moral, and be, so far as practicable, open to competition, so that the possession of the scholarship shall testify to the qualifications of the possessor, and that it be limited to members of the two higher classes."

COMMENCEMENT HONORS IN THE CLASS OF 1880.

The Valedictory Addresses, Samuel Hanson Ordway.
The Salutatory Oration, George Stephen Goodspeed.
The Classical Oration, William Herbert Perry Faunce.
The Philosophical Oration, Walter Foster Angell.

DEGREES CONFERRED IN 1880.

THE DEGREE OF BACHELOR OF ARTS,

Upon the following Members of the Class of 1880:

Augustus Levi Abbott,
Charles Robert Adams,
Walter Foster Angell,
Wilberforce Ewing Archibald,
James Austin, Jr.,
Edmund Neville Bennett,
John Taggard Blodgett,
Henry Jackson Boyce,
Gibbs Braislin,
Charles Edwin Burdette,
John Nathan Butman,
Zechariah Chafee, Jr.,
John Loring Crane,
James Wallace Darrow,
Walter Edward Delabarre,
Henry Dunster, Jr.,
Samuel Slater Durfee,
Richard Bartlett Esten,
William Herbert Perry Faunce,
Frank Eustace Fitz,
George Stephen Goodspeed,
Fred Mason Hammett,

Henry Gano Hardy,
Arthur Whitney Howe,
Charles William Jencks, Jr.,
Herbert Ide Keen,
John Power Knowles, Jr.,
Isaac Albert Lamson,
William Hoyle Lane,
James Granger Lincoln,
Walter Sydney Meader,
Donald Littlefield Morrill,
Samuel Hanson Ordway,
John Holden Ormsbee,
Edgar Perry,
James Tobey Pyke,
William Francis Richardson,
J Lee Richmond,
George William Rigler,
Sidney White Rivenburg,
David Foster Slade,
Samuel Watson Smith, Jr.,
Wesley Lorenzo Smith,
James Clay Starkweather,
George West Stone,
John Sutherland,
Fred Clay Tenney,
Benjamin Franklin Thurston,
William Ramsay Trotter,
George Miller Tustin,
Frederick Johnson Clegg Walton,
Paul Waterman,
William Henry Winslow.

THE DEGREE OF BACHELOR OF PHILOSOPHY,

Upon the following Members of the Class of 1880:

Prescott Orloff Clarke,
Augustus Arabert Greene,
William Hale, Jr.,
Philip Augustus Mathewson,
Frank Luscombe Tinkham.

THE DEGREE OF MASTER OF ARTS,

UPON

James Mitchell Coleman Ely, M. D., of the Class of 1842.
Lloyd Morton, M. D., of the Class of 1849.
Victor Foote Horton, of the Class of 1873.
William Chace Greene, of the Class of 1875.
Henry Allen Whitmarsh, of the Class of 1876.

And upon the following members of the Class of 1877 :

Wayland Everett Benjamin,
George Henry Culver,
Joseph Taft Day,
Henry Scudder Drake,
Rathbone Gardner,
Asa Eldridge Goddard,
Howard Forde Hansell,
Thomas Allen Jenckes,
James Prentice Kelley,
Inman Edward Page,
Edward Elisha Pierce,
Dryden William Phelps,
William Paine Sheffield,
Isaac Hinckley Southwick,
William Grant Van Horne,
George Otis Ward,
Fred Homer Williams,
Patrick Whitney,
Charles Sumner Young.

THE DEGREE OF MASTER OF ARTS,

UPON

Joseph Warren Merrill, of Cambridge, Mass.,

AND UPON

Sidney Smith Rider, of Providence.

CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

BROWN UNIVERSITY

1881-82.

PROVIDENCE:
PRESS OF J. A. & R. A. REID.
1881.

Issued, November, 1881.

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Brown Univ.

30335

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1881-82.

1881	SUN.	MON.	TUES.	WED.	THUR.	FRI.	SAT.
July	..	..	..	..	..	1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31	..	.	..	..	..	..
Aug.	..	1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31	..	..	..
Sept.	..	..	..	..	1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	..
Oct.	..	..	.	..	..	..	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31	..	..	..	..	..
Nov.	..	..	1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	..	..	..
Dec.	..	..	..	..	1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	31

1882	SUN.	MON.	TUES.	WED.	THUR.	FRI.	SAT.
Jan.	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31	..	..	..	..
	..	..	..	..	..	..	..
Feb.	..	..	..	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	..	..	..	..
Mar.	..	..	..	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	..
April	..	..	..	..	..	..	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	..	..	..	..	..	..
May	..	1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31	..	..	..
June	..	..	..	..	1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	..

1882	SUN.	MON.	TUES.	WED.	THUR.	FRI.	SAT.
July	..	..	..	..	..	..	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31	..	..	..	..	..
Aug.	..	..	1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	31	..	..
Sept.	..	..	..	..	..	1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
Oct.	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31	..	..	..	..
	..	..	..	1	2	3	4
Nov.	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	..	..
	..	..	..	..	..	1	2
Dec.	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31	..	..	..	..	..	..

CALENDAR FOR 1881-82.

1881.

September 7, *Wednesday*. Annual Meeting of the Corporation.

September 21, *Wednesday*. **Academic Year Begins** (third Wednesday in September).

November 24, *Thursday*. Thanksgiving Day. (No College exercises on Thursday, Friday, and Saturday of Thanksgiving week).

Christmas Holidays, from evening of Friday, December 23, 1881, to evening of Tuesday, January 3, 1882.

1882.

January 25, 26, 27, *Wednesday, Thursday, Friday*. Semi-Annual Examinations of College classes.

January 30, *Monday*. **Second Half-year Begins.**

February 22, *Wednesday*. Washington's birthday. No College exercises.

Spring Recess, Saturday, March 25, to Monday evening, April 3.

April 15, *Saturday*. Junior Exhibition.

May 18, 19, 20, *Thursday, Friday, Saturday*. Examination of Senior Class.

May 30, *Tuesday*. Decoration Day. No College exercises.

June 13, 14, 15,	*Tuesday, Wednesday, Thursday.* Semi-Annual Examinations of College Classes.
June 16,	*Friday.* Class Day.
June 18,	*Sunday.* Baccalaureate Sermon.
June 19,	*Monday.* Sophomore Prize Declamation.
June 20,	*Tuesday.* Annual Meeting of the Phi Beta Kappa Society, 9.30 A. M.
June 20,	*Tuesday.* Annual Alumni Meeting in Manning Hall, at 4 P. M.
June 21,	*Wednesday.* **One hundred and fourteenth annual Commencement,** (third Wednesday in June).
June 22,	*Thursday.* Meeting of the Corporation.
June 22, 23, 24,	*Thursday, Friday, Saturday.* Examination for admission to College. Candidates assemble at No. 12 University Hall, at 8 o'clock, A. M. They must be in attendance all three days.
	Summer Vacation.
September 6,	*Wednesday.* Annual Meeting of the Corporation in Manning Hall (on the first Wednesday in September).
September 19,	*Tuesday.* Examination of Delinquents in College Studies.
September 18, 19,	*Monday, Tuesday.* Examinations for admission.
September 20,	*Wednesday.* **Academic Year Begins.**

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FRANCIS A. GASKILL, A. B.

MEMBERS OF THE FACULTY,

AND

OTHER OFFICERS.

REV. EZEKIEL G. ROBINSON, D. D., LL. D.,

PRESIDENT,

Professor of Moral and Intellectual Philosophy.

JOHN L. LINCOLN, LL. D.,

Professor of the Latin Language and Literature.

SAMUEL S. GREENE, LL. D.,

Professor of Mathematics and Astronomy.

ALBERT HARKNESS, PH. D., LL. D.,

Professor of the Greek Language and Literature.

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Hazard Professor of Physics.

**Elton Professor of Natural Theology.*

JOHN W. P. JENKS, A. M.,

Professor of Agricultural Zoology, and Curator of the Museum.

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*At present, instruction in Natural Theology is given by the PRESIDENT of the University.

CHARLES W. PARSONS, M. D.,

Professor of Physiology.

ALONZO WILLIAMS, A. M.,

Professor of Modern Languages.

WILLIAM CAREY POLAND, A. M.,

Assistant Professor of Latin and Greek.

ALPHEUS S. PACKARD, Jr., M. D., Ph. D.,

Professor of Zoology and Geology.

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Assistant Professor of Mathematics.

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Professor of Natural History, (Botany,) and Curator of the Herbaria.

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Acting Professor of History and Political Economy.

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Instructor in Mathematics.

HOWARD MALCOM TICKNOR, A. M.,

Instructor in Elocution.

EDWIN EDDY CALDER,

Assistant Instructor in Analytical Chemistry.

REUBEN ALDRIDGE GUILD, LL. D.,

Librarian.

JOHN MILTON BURNHAM, A. M.,

Assistant Librarian.

FRANCIS WAYLAND DOUGLAS, A. M.,

Registrar.

UNDERGRADUATES.

SENIOR CLASS.

NAME.	RESIDENCE.	ROOM.
Ira Richard Allen,	*Fair Haven, Vt.*,	Slater, 4.
Charles Lincoln Bartlett,	*Le Roy, N. Y.*,	Hope, 23.
Edward Clarence Bixby,	*Providence*,	68 Point St.
William Benezet Bogert,	*Providence*,	58 George St.
Simeon Borden, Jr.,	*Fall River, Mass.*,	Hope, 5.
Benjamin Ellwood Bowerman,	*Portsmouth*,	University, 37.
Frank Fontelle Brigham,	*Westboro', Mass.*,	Hope, 9.
William Albert Buxton,	*Londonderry, Vt.*,	Hope, 3.
Stewart Chaplin,	*Boston, Mass.*,	Hope, 12.
Edward Benjamin Cole,	*Boston, Mass.*,	Slater, 1.
Frank Howard Davis,	*Lynn, Mass.*,	Hope, 10.
Asa Reed Dilts, Jr.,	*Raritan, N. J.*,	Hope, 25.
Frank Adelbert Everett,	*Franklin, Mass.*,	Hope, 43.
Samuel Walter Foss,	*Portsmouth, N. H.*,	26 Waverly St.
Austin Powers Foster,	*S. Abington, Mass.*,	University, 58.
William Allen Francis,	*Fall River, Mass.*,	Hope, 21.
Newton Stone Fuller,	*Providence*,	48 Transit St.
Arthur Edward Gage,	*Portsmouth, N. H.*,	26 Waverly St.
Fred Luther Gamage,	*Westboro', Mass.*,	Hope, 27.
Albert Greene,	*Westerly*,	Hope, 47.
John Stimson Greene,	*Providence*,	37 So. Angell St.
Benjamin Laisdell Herr,	*Norwich, Conn.*,	University, 53.
Elmer Samuel Hosmer,	*Clinton, Mass.*,	Franklin House, 57.
George Rice Hovey,	*Newton Centre, Mass.*,	Hope, 10.
George Huntington,	*Greenville, Mich.*,	University, 42.
Walter Ballou Jacobs,	*Providence*,	26 Peace St.

NAME.	RESIDENCE.	ROOM.
William Everett Jillson,	*Providence*,	76 Prospect St.
Julius Arthur Johnson,	*Beaver Dam, Wis.*,	University, 42.
William Robert Keegan,	*Providence*,	Prairie Ave. and Dudley St.
Arthur Thomas Lawton,	*Jewett City, Conn.*,	University, 41.
William Turell Learned,	*Fall River, Mass.*,	Slater, 11.
William Clawson Lott,	*Bridgeton, N. J.*,	Slater, 15.
Herbert McIntosh,	*Doylestown, Penn.*,	Hope, 42.
Winfield George Merrill,	*Lawrence, Mass.*,	Slater, 3.
Osman Cleander Baker Nason,	*Woonsocket*,	University, 19.
William Richard Park,	*Plymouth, N. H.*,	Hope, 35.
Charles Hart Payne,	*Providence*,	Slater, 16.
John Milton Payne,	*Pawtucket*,	Pawtucket.
William Henry Pomeroy,	*Springfield, Mass.*,	Hope, 39.
John Augustine Sanford,	*Attleboro', Mass.*,	Hope, 42.
Nathaniel Seabury,	*Providence*,	Slater, 16.
Frederick Eugene Shaw,	*Valley Falls*,	Valley Falls.
Jefferson Shiel,	*Philadelphia, Penn.*,	Hope, 46.
James Hovey Spencer,	*Fair Haven, Vt.*,	Hope, 39.
Edward Allen Swain,	*Pomfret, Conn.*,	Hope, 24.
George Spring Taft,	*Uxbridge, Mass.*,	Hope, 8.
Herbert Edgar Thayer,	*Foxboro', Mass.*,	Hope, 43.
Charles Rawson Thurston,	*Newport*,	Hope, 26.
Henry Anthony Tillinghast,	*Providence*,	108 Angell St.
William Howe Tolman,	*Pawtucket*,	University, 19.
William Bullock Waterman,	*Providence*,	72 Meeting St.
John Loy Williams,	*Philadelphia, Penn.*,	University, 53.
Charles Haddon Spurgeon Weaver,	*Greensburg, Penn.*,	91 Chestnut St.

Select Course.

Henry Anthony Townsend,	*Providence*,	103 Bowen St.

JUNIOR CLASS.

NAME.	RESIDENCE.	ROOM.
John Aldrich,	*Westerly,*	University, 20.
Edwin Pierce Allen,	*Providence,*	Slater, 18.
Alfred Williams Anthony,	*Providence,*	Slater, 13.
Arthur Eaton Baker,	*Winchester, Mass.,*	University, 50.
Sharonton Hale Baker,	*Dover, N. H.,*	University, 56.
Abram Barker,	*Fall River, Mass.,*	Slater, 7.
Ira Barrows,	*North Attleboro', Mass.,*	Slater, 14.
Nathaniel Brown Blaisdell,	*Providence,*	255 Potter's Ave.
Herbert Anthony Bowen,	*Providence,*	65 Orms St.
James Albert Brown,	*Brooklyn, Conn.,*	University, 49.
Frank Eli Brooks,	*Globe Village, Mass.,*	University, 20.
Isaac Bronson Burgess,	*Hampton Falls, N. H.,*	University, 49.
Charles Stillman Caswell,	*East Douglas, Mass.,*	University, 56.
Jonathan Irvin Chaffee,	*E. Providence Centre,*	E. Providence Centre.
Wilson Gardner Crosby,	*Edgartown, Mass.,*	40 John St.
James Henry Davenport,	*Fall River, Mass.,*	Hope, 38.
Lewis Dexter, Jr.,	*Nayatt,*	Slater, 13.
Elias Fasset Dunlevy,	*Chicago, Ill.,*	Slater, 4.
Elisha Dyer, 3d,	*Providence,*	Hope, 34.
Joel Nelson Eno,	*Willington, Conn.*	Hope, 20.
Alfred William Fitz,	*Chelsea, Mass.,*	Slater, 5.
Clarence Gardner,	*Pella, Iowa,*	University, 36.
Moses Clement Gile,	*East Haverhill, Mass.,*	University, 40.
Henry Stedman Graves,	*Haverhill, Mass.,*	Hope, 7.
Ray Woodville Greene,	*Westerly,*	Hope, 47.
Samuel Stuart Greene,	*Providence,*	37 So. Angell St.
Clifford Angell Harrington,	*Providence,*	12 Sycamore St.
William Harris,	*Providence,*	60 Bowen St.
Nicholas Hatheway, Jr.,	*Fall River, Mass.,*	Hope, 41.
Joseph Melzar Hobbs,	*Boston, Mass.,*	Hope, 30.

NAME.	RESIDENCE.	ROOM.
Simeon Ryarson Leach,	*Jamaica Plain, Mass.*,	439 Benefit St.
Alexander Duncan Leete,	*Providence*,	100 Broadway.
Charles Melvin Leonard,	*Middleboro', Mass.*,	Slater, 15.
Isa Henry Leveen,	*Portsmouth, N. H.*,	University, 36.
Emory Stevens Lyon,	*Providence*,	9 Young Orchard Ave.
Charles Bateman Luther,	*Fall River, Mass.*,	Slater, 11.
Henry Parker Manning,	*Raynham, Mass.*,	University, 52.
Arthur May Mowry,	*Providence*,	Slater, 18.
Howard Willis Preston,	*Providence*,	Slater, 13.
Michael Joseph Quigley,	*Valley Falls*,	Valley Falls.
Charles Munroe Sheldon,	*Yankton, Dak.*,	University, 40.
Frank Lucius Shepardson,	*Rehoboth, Mass.*,	Hope, 46.
Richard Otis Sherwood,	*Middletown*,	Hope, 20.
William Edward Simonds,	*Providence*,	91 Sheldon St.
Edgar Oscar Silver,	*Derby Centre, Vt.*,	Hope, 22.
George Edward Smith,	*Tiverton*,	Hope, 38.
Sylvester Miller Snow,	*Providence*,	Cor. Waterman and Gano Sts.
Edward Casper Stokes,	*Millville, N. J.*,	183 Benefit St.
Martin Walter Twing,	*Monterey, Mass.*,	University, 52.
FredericEllsworthWhittemore,	*Ashland, Mass.*,	24 Wood St.
Clarence Otis Williams,	*Providence*,	Gilmore St.
William Frederic Williams,	*Bristol*,	Hope, 7.

Select Course.

Lucius Pond Ordway,	*Providence*,	Slater, 5.
Clarence Edward Wilson,	*East Providence*,	Hope, 3.

SOPHOMORE CLASS.

NAME.	RESIDENCE.	ROOM.
Lyndon Laroy Anderström,	*Bristol*,	Hope, 36.
Frank Howard Andrews,	*Providence*,	582 Broad St.
William Birket Arnold,	*Centreville*,	Slater, 2.
Albert Allison Baker,	*Providence*,	104 Carpenter St.
Charles Lewis Baker,	*Fall River, Mass.*,	Slater, 10.
Arthur Channing Barrows,	*Woonsocket*,	Slater, 14.
George Henry Bottum,	*Shaftsbury, Vt.*,	Hope, 18.
William Manuel Peres Bowen,	*Providence*,	73 Ring St.
Richmond Brewer,	*Providence*,	17 Angell St.
Frank Melville Bronson,	*Andover, Mass.*,	University, 48.
Hermon Carey Bumpus,	*Boston Highlands, Mass.*,	Slater, 8.
Everett Doughty Burr,	*New York, N. Y.*,	Slater, 9.
George Arnold Carpenter,	*Ashton*,	Ashton.
William Jacob Cloues,	*Charlestown, Mass.*,	Hope, 14.
Alfred Dodge Cole,	*Beverly, Mass.*,	Hope, 35.
John Daboll,	*Providence*,	112 Daboll St.
John George Doron,	*Mt. Holly, N. J.*,	Slater, 17.
Everett Brownell Durfee,	*Fall River, Mass.*,	Slater, 2.
Claude Joseph Farnsworth,	*Pawtucket*,	Pawtucket.
Robert Henry Ferguson,	*Boston, Mass.*,	University, 35.
Edwin Charles Gammage,	*Woonsocket*,	University, 47.
Arthur Amory Gammell,	*Providence*,	Hope, 34.
George Ellery Gardner,	*Wickford*,	University, 30.
Henry Brayton Gardner,	*Providence*,	260 Waterman St.
George Coleman Gow,	*Brattleboro', Vt.*,	Hope, 25.
Charles William Greene,	*Providence*,	38 Cooke St.
Robert Warren Greene,	*Providence*,	53 Lawrence St.
Harry Hathaway Hammond,	*Providence*,	29 Angell St.
Edwin Bates Harvey,	*Providence*,	229 Fountain St.

NAME.	RESIDENCE.	ROOM.
Leonidas Raymond Higgins,	*Flemington, N. J.*,	Hope, 44.
Henry Russell Hitchcock,	*Foxboro', Mass.*,	Hope, 48.
Albert Harris Howard,	*Providence*,	190 Waterman St.
Willie Clarence Ingalls,	*Putney, Vt.*,	Hope, 29.
James Lawrence Jenks,	*Pawtucket*,	Pawtucket.
Edwin Lehman Johnson,	*Memphis, Tenn.*,	Hope, 40.
James Wager Johnson,	*New York, N. Y.*,	14 George St.
Joseph Harris Johnson,	*Providence*,	45 Mawney St.
Charles Gregory King, Jr.,	*Cleveland, O.*,	Slater, 14.
Benjamin Willey Lightburn,	*Flatwoods, Penn.*,	University, 47.
George Albert Loomis,	*East Greenwich*,	East Greenwich.
Frederick Newton Luther,	*Providence*,	13 Dudley St.
Alfred Earle Manchester,	*Providence*,	3 America St.
Stephen Elmer Mann,	*Fall River, Mass.*,	Slater, 10.
Harold Metcalf,	*Providence*,	127 Smith St.
Winthrop Marshall Munro,	*Bristol*,	Hope, 23.
Andrew Newall,	*Westerly*,	Hope, 37.
George Hayward Nichols,	*Providence*,	364 Potter's Ave.
Clement Dietrich O'Leary,	*Providence*,	95 Washington St.
Otis Everett Randall,	*East Providence*,	East Providence.
Abbott Barnes Rice,	*Hopkinton, Mass.*,	Hope, 36.
Augustus Erving Scoville,	*Bridgeport, Conn.*,	Hope, 14.
Edward Whitten Shedd,	*Providence*,	80 So. Angell St.
Volney Skinner,	*Watertown, Mass.*,	Hope, 31.
Edward Presbury Smith,	*Vineyard Haven, Mass*,	Hope, 16.
Frank Edwin Sweet,	*Pawtucket*,	55 Grove St.
Theodore Foster Tillinghast,	*Providence*,	108 Angell St.
Edward Pratt Tuller,	*Hartford, Conn.*,	Hope, 11.
George Alfred Tyzzer,	*Wakefield, Mass.*,	University, 44.
Charles Russell Upton,	*Lowell, Mass.*,	Hope, 17.
Josiah Howe Vose,	*Providence*,	Slater, 15.
George Bulkeley Wakeman,	*Moodus, Conn.*,	Hope, 44.
Allan Temple White,	*Winchendon, Mass.*,	Hope, 24.
Thomas Weston Wood, Jr.,	*Newport*,	29 Benevolent St.

Select Course.

NAME.	RESIDENCE.	ROOM.
Ira Charles Hersey,	*Foxboro', Mass.*,	281 Pine St.
Richard Lamb,	*Norfolk, Va.*,	Slater, 6.
Marshall Augustus Newell,	*San Francisco, Cal.*,	Slater, 6.
Samuel Slater,	*Providence*,	66 Benefit St.
Herbert Osgood True,	*Antrim, N. H.*,	29 Union St.
Charles Horace Wheeler,	*Providence*,	Hope, 11.

FRESHMAN CLASS.

NAME.	RESIDENCE.	ROOM.
Harlan Page Abbott,	*Antrim, N. H.,*	Hope, 6.
Harry Olin Alexander,	*Bellows Falls, Vt.,*	91 Chestnut St.
Emerson Henry Alger,	*Providence,*	Hope, 22.
Lloyd Morton Blodgett,	*Pawtucket,*	11 George St.
Horace Eugene Brigham,	*Westboro', Mass.,*	Hope, 9.
John Nicholas Brown,	*Newport,*	Slater, 12.
William Chamberlain Burwell,	*Saxton's River, Vt.,*	Hope, 15.
Theron Harlow Carter,	*Charlemont, Mass.,*	Hope, 13.
Elmer Case,	*Canton, Conn.,*	University, 31.
Duncan Alexander Cattanach,	*Providence,*	2 Angell Place.
Ward Beecher Chase,	*Fayette, Me.,*	Hope, 16.
Prescott Holmes Coleman,	*Providence,*	136 S. Main St.
Olin Sylvester Davis,	*Lake Village, N. H.,*	34 Daboll St.
Frank Leslie Day,	*Keene, N. H.,*	Hope, 6.
Charles Owen Dexter,	*Nayatt,*	Slater, 9.
Norman Staunton Dike,	*Brooklyn, N. Y.,*	Slater, 3.
John Byron Diman,	*Providence,*	130 Angell St.
Charles Thomas Eaton,	*Needham, Mass.,*	University, 23.
Walter Goodnow Everett,	*South Hampton, N. H.,*	Hope, 13.
Amory Prescott Folwell,	*Waterbury, Conn.,*	Hope, 1.
Joseph Wood Freeman,	*Central Falls,*	Hope, 1.
Ferdinand Courtney French,	*Providence,*	Hope, 4.
Edward Augustus George,	*Providence,*	Hope, 2.
Edgar Homer Grout,	*Hopkinton, Mass.,*	Hope, 36.
Charles Henry Hare,	*Suffield, Conn.,*	University, 46.
Walter Hayward,	*Providence,*	11 Linden St.
John Calder Hebden,	*Providence,*	Hope, 33.
Crawford Hill,	*Denver, Col.,*	Slater, 14.
Charles Chambers Hitchcock,	*Foxboro', Mass.,*	Hope, 48.

NAME.	RESIDENCE.	ROOM.
Clinton Prescott Knight,	*Providence,*	157 Greenwich St.
Clarence Littlefield,	*Block Island,*	197 Carpenter St.
Edward Fairfield Lovejoy,	*Burrillville,*	439 Benefit St.
George Stitzel Mathews,	*Temple, Penn.,*	71 Ocean St.
Frank Mauran, Jr.,	*Providence,*	326 Benefit St.
Charles Herbert McIntire,	*Lowell, Mass.,*	Hope, 17.
Francis Albert McLane,	*Providence,*	263 Washington St.
James Charles Monaghan,	*Providence,*	27 Florence St.
Johnson Morton,	*Pawtucket,*	57 East Avenue.
Frank Edwin Peckham,	*Providence,*	Hope, 37.
William Pratt,	*Pawtucket,*	Pawtucket.
Charles Franklin Reed,	*South Abington, Mass.,*	University, 58.
William Ashton Reed,	*South Abington, Mass.,*	University, 44.
Edgar Wilson Remington,	*Warwick,*	Hope, 2.
Henry Johns Rhett,	*Newport,*	Hope, 32.
Knight Cheney Richmond,	*Providence,*	Slater, 7.
Norman Leonard Richmond,	*Lakeville, Mass.,*	University, 31.
Fred Leslie Sanborn,	*Claremont, N. H.,*	Hope, 15.
Charles Freeman Sawyer,	*Providence,*	225 Charles St.
Clifford Phetteplace Seagrave,	*Providence,*	119 Benefit St.
William Henry Shedd,	*Providence,*	18 Thayer St.
Henry Reuben Skinner,	*Watertown, Mass.,*	Hope, 31.
Carroll Walter Smith,	*Washington, D. C.,*	Hope, 4.
Charles Morris Smith, Jr.,	*Providence,*	114 Benevolent St.
Noah Beazelle Smith,	*Washington, D. C.,*	University, 34.
Lorenzo Burdette Smull,	*Port Washington, N. Y.,*	Pawtucket.
Howard Kemble Stokes,	*Millville, N. J.,*	183 Benefit St.
Samuel Slater Stone,	*Foster,*	439 Benefit St.
Arthur Preston Sumner,	*Providence,*	Trinity Square.
Orray Taft,	*Pawtuxet,*	12 Angell St.
Walter Blake Taft,	*Providence,*	Hope, 2.
Frank Locke Titcomb,	*Providence,*	22 Nichols St.
Fred Alpha Very,	*Wellsville, N. Y.,*	Hope, 33.
Andrew McCorrie Warren,	*Providence,*	134 Bridgham St.
Henry Knowles Wilbur,	*Andover, Mass.,*	University, 48.
Allen Herbert Willett,	*Suffield, Conn.,*	University, 46.
Ernest G. Wightman,	*Taunton, Mass.,*	Slater, 19.
Horatio Gates Wood,	*Newport,*	Hope, 32.

Select Course.

NAME.	RESIDENCE.	ROOM.
Edwin Thomas Banning,	*Newport,*	Hope, 26.
Francis Hail Brown,	*Warwick,*	104 Eddy St.
William James Burton,	*Providence,*	1 Westminster St.
Francis Whittier Greene,	*River Point,*	Slater, 2.
Frederic Alexander Hill,	*Valley Falls,*	Valley Falls.
James Monroe Pendleton, 2d,	*Westerly,*	Hope, 37.
Ashbel Tingley Wall,	*Providence,*	11 Chestnut St.

SUMMARY.

Seniors	54
Juniors	54
Sophomores	69
Freshmen	74
Total	251

TIME AND CONDITIONS OF ADMISSION.

The regular examination for admission to the Freshman Class will take place on Thursday, Friday, and Saturday of Commencement week, June 22, 23, 24, 1882, beginning at 8 o'clock, A. M., on Thursday. The candidates will assemble in No. 12, University Hall; and *they must be in attendance during the three days.*

There will be a second examination on Monday, Sept. 18, 1882, beginning at 9 o'clock, A. M., and on Tuesday, Sept. 19, 1882, at 8 o'clock, A. M. Applicants must be in attendance both days.

For admission to Advanced Standing, candidates must pass a general examination in the studies already pursued by the class which they propose to enter.

No student can be admitted as a candidate for matriculation, unless he brings suitable testimonials of good moral character; and if he comes from another college or an academy, he must also present a certificate of good standing in the institution which he has left, and of regular dismission from it.

For the Course for the Degree of Bachelor of Arts.

Candidates for admission to the Freshman Class are examined in the following subjects; but real equivalents will be received for any of the Latin or Greek works mentioned.

I. Greek. 1. Greek Grammar (Hadley's is preferred). 2. The Syntax and Greek Selections in Harkness' "First Greek Book," or an equivalent from any other Greek Reader. 3. The whole of Xenophon's Anabasis, or *five* books of the Anabasis and *two* books of Homer; the Odyssey is preferred. 4. The first *twenty* exercises of Arnold's Greek Prose Composition, or the first *twenty-five* exercises of Jones' Greek Prose Composition. 5. In the general history of Greece to the death of Alexander.

Note. — In place of the examination in five books of the Anabasis and two of the Iliad, candidates may, at their option, substitute an examination in translating at sight passages of ordinary difficulty from the works of Xenophon and from the Iliad. Candidates thus examined will be supplied with a vocabulary of the less usual words.

II. Latin. Candidates will be examined in 1882, on either of the following courses, at their option:

First Course.

1. Latin Grammar (Harkness' Grammar is preferred). 2. Caesar, *Gallic War*, books I.–V., or *three* books of Caesar and the *Catiline* of Sallust. 3. The *first six* books of Virgil's Aeneid, and thirty-five hundred lines of Ovid; as an equivalent for Ovid, either the *last six* books of the Aeneid, or the Bucolics and Georgics. 4. Seven Orations of Cicero, including the Manilian law. 5. Parts I. and II. of Harkness' Latin Composition.

Second Course.

1. Caesar, *Gallic War*, books I.–IV., or books I.–III., and Sallust's *Catiline*, with questions on the subject-matter and on grammar; Cicero, Orations *against Catiline*, and *for Archias*, with questions, as on Caesar; Virgil, *Aeneid*, books I.–VI., or *Aeneid*, books I.–V., and the *Eclogues*, with questions on the subject matter and on prosody. 2. Translation, at sight, of average passages from Caesar, Cicero's *Orations*, Virgil's *Aeneid*, and Ovid's *Metamorphoses*, with questions on grammar, prosody, history, and antiquities, suggested by the passages assigned. 3. Translation into Latin of simple English sentences, and also of a continuous passage of English narrative, prepared from some portion of the prescribed prose. 4. Outlines of Roman Geography; and of Roman History to the end of the reign of Marcus Aurelius. It is recommended that pupils be accustomed, from the beginning of their preparatory course, to translate into Latin, both orally and in writing, passages prepared by the teachers on the basis of the prose authors read.

III. **Mathematics.** 1. Arithmetic, including the Metric system of weights and measures. 2. Algebra, through Equations of the Second Degree, including Arithmetical and Geometrical Progression, and the use of the Binomial Formula. 3. Plane Geometry.

IV. **English Composition.** Candidates will be required to write a brief composition upon a subject assigned at the time of examination. These compositions must be correct in spelling, punctuation, grammar, division into paragraphs, and expression.

In 1882 subjects will be drawn from one of the following works: Shakespeare's Othello; Goldsmith's Vicar of Wakefield, and Deserted Village; Scott's Bride of Lammermoor.

Candidates are expected to be familiar with all the above works.

Specimens of incorrect English will also be assigned for correction.

In 1883 subjects will be drawn from one of the following works: Shakespeare's Julius Caesar; The Sir Roger de Coverley Papers of Addison; Macaulay's Essay on Addison; Scott's Marmion; Thackeray's Henry Esmond.

For 1884, the list will be as follows: Shakespeare's Julius Caesar, and Merchant of Venice; Thackeray's Henry Esmond; Burns' Cotter's Saturday Night; Carlyle's Essay on Burns; Scott's Lady of the Lake; Irving's Sketch-Book.

V. French. Otto's French Grammar, Part I., including *the Reading lessons.* (An additional examination is offered to candidates desiring to enter the advanced Division of the Freshman class in French.)

In all these branches, candidates will be examined both orally and by writing.

Preliminary Examinations.

In certain of the Preparatory studies, candidates may be examined one year before the time at which they intend to apply for admission to the Freshman Class. This examination will be held in June only. The subjects for this earlier examination will be the following:

(1.) Greek Grammar.

(2.) The Syntax and Greek selections in Harkness' "First Greek Book," or an equivalent from any other Greek Reader.

(3.) Three books of Xenophon's Anabasis.

(4.) Latin Grammar.

(5.) Five books of Caesar, and either thirty-five hundred lines of Ovid or seven orations of Cicero; or Caesar and six books of the Aeneid.

(6.) Arithmetic, including the Metric system of weights and measures.

For the Courses for the Degree of Bachelor of Philosophy.

There are two parallel courses of instruction of Candidates for the degree of Bachelor of Philosophy, each course extending through a period of four years. One of these courses includes classical studies; the other omits them, and substitutes a larger amount of scientific studies.

Candidates for admission to a course including *Greek*, are examined in all the Greek subjects specified on page 24. They are also examined in all the subjects in the list below.

Candidates for admission to a course including *Latin*, are examined in the Latin subjects specified on pages 24–25. They are also examined in all the subjects (except the Latin) in the list below.

Candidates for admission to the course *omitting* classical studies, are examined in all the following subjects:

I. Latin.

Five books of Caesar, or its equivalent in Cicero or in Virgil.

II. Mathematics.

1. Arithmetic, including the Metric system of weights and measures. 2. Algebra, through Equations of the Second Degree, including Arithmetical and Geometrical Progression, and the use of the Binomial Formula. 3. Plane Geometry.

III. English.

Candidates will be required to write a brief composition upon a subject assigned at the time of examination. These compositions must be correct in spelling, punctuation, grammar, division into paragraphs, and expression.

In 1882 subjects will be drawn from one of the following works: Shakespeare's Othello; Goldsmith's Vicar of Wakefield, and Deserted Village; Scott's Bride of Lammermoor.

Candidates are expected to be familiar with all the above works.

Specimens of incorrect English will also be assigned for correction.

For subjects for 1883 and 1884, see page 26.

IV. French.

Otto's French Grammar, Part I., including *the Reading lessons.* (An additional examination is offered to candidates desiring to enter the advanced Division of the Freshman class in French.)

In all these branches, candidates will be examined both orally and by writing.

SELECT COURSES.

Students who wish to pursue a Select Course, without entering as candidates for a degree, must be examined in such subjects as are preliminary to the studies that they desire to pursue in College.

COURSES OF INSTRUCTION.

FIRST: FOR THE DEGREE OF BACHELOR OF ARTS.

FRESHMAN CLASS.

First Half-Year.

1. *Greek.* (*a*) Felton's Greek Historians. — (*b*) Arnold's Greek Prose Composition. — (*c*) Smith's History of Greece. *Four hours a week.*
2. *Latin.* (*a*) Livy (Lincoln's Selections), Books I., II., XXI.— (*b*) Harkness' Latin Composition, Part III. — (*c*) History of Rome. *Five hours a week.*
3. *Mathematics.* Algebra, from Quadratic Equations. *Five hours a week.*
4. *French.* (*a*) First Division, The *Athalie*, *Iphigénie* and *Phèdre* of Racine. (*b*) Second Division. The *Télémaque* of Fénelon. *Two hours a week.*
5. *Hygiene.* A course of Lectures.

Second Half-Year.

1. *Greek.* (*a*) Homer's Iliad.— (*b*) Arnold's Greek Prose Composition completed. *Five hours a week.*
2. *Latin.* (*a*) Cicero de Senectute.— (*b*) De Amicitia.— (*c*) Selections from Cicero's Epistles. (*d*) Exercises in Latin Composition. *Four hours a week.*
3. *Mathematics.* (*a*) Olney's Geometry.— (*b*) Olney's Advanced Course in Geometry, Solid and Spherical.— (*c*) Plane and Spherical Trigonometry. *Five hours a week.*
4. *French.* (*a*) First Division. The *Horace*, *Cid*, *Cinna* and *Polyeucte* of Corneille. (*b*) Second Division. The *Horace* and *Cid* of Corneille. *Two hours a week.*

SOPHOMORE CLASS.

First Half-Year.

1. *Greek.* Demosthenes. — Public Orations. *Three hours a week.*
2. *Latin:* (*a*) Horace (Lincoln's Edition).—(*b*) Exercises in Latin Composition. *Two hours a week.*
3. *Mathematics.* (*a*) Olney's General Geometry and Calculus.—(*b*) Lectures on Spherical Astronomy. *Five hours a week.*
4. *French.* (*a*) First Division. The *Précieuses Ridicules*, *Femmes Savantes*, *Fourberies de Scapin*, *Bourgeois Gentilhomme*, *Misanthrope*, *Tartuffe* of Molière; *L'été de la Saint Martin* of Meilhac; *La Joie fait Peur* of Girardin; *La Cagnotte* of Labiche; *Art Poétique* of Boileau; and *Histoire de la Littérature Française* by Marcillac. (*b*) Second Division. *Art Poétique* of Boileau; *Fourberies de Scapin* and *Bourgeois Gentilhomme* of Molière; *L'été de la Saint Martin* of Meilhac.—(*c*) Lectures on the Language and Literature to the whole class.
5. *Rhetoric.* (*a*) Lectures on English Composition. Text-Book. Hill's Principles of Rhetoric. *Two hours a week.* (*b*) Essays. Principal Books of Reference: Campbell's Philosophy of Rhetoric, Whately's Elements of Rhetoric, Kames' Elements of Criticism, and Hill's Science of Rhetoric.
6. *Elocution.* Lectures and Exercises. *Once a week.* Principal Works of Reference: Rush On the Voice; Murdoch and Russell's Vocal Culture; The Speaking Voice, Hullah; Throat and Voice, Cohen.

Second Half-Year.

1. *Greek.* (*a*) Sophocles.—(*b*) Lectures. *Two hours a week.*
2. *Latin.* (*a*) Tacitus.—(*b*) Exercises in Latin Composition. *Three hours a week.*

3. *Mechanics.* (*a*) Peck's Mechanics. *Five hours a week.*
4. *Rhetoric.* (*a*) Lectures in English Composition. Text-Book, Hill's Principles of Rhetoric. *Two hours a week.* (*b*) Essays.
5. *Elocution.* Lectures and Exercises, with Declamations. *One hour a week.* For reference, Bacon's Manual of Gesture. Also one of the following elective studies: (*a*) German. (1.) Whitney's Grammar. (2.) Joynes' Reader. (3.) *Der zerbrochene Krug* of Zschokke. (*b*) French. (1.) Modern Plays. (2.) Lectures.

JUNIOR CLASS.

First Half-Year.

1. *Rhetoric.* (*a*) Lectures on the English Language. Manual of English Literature, with Readings from authors. *Three hours a week.* (*b*) Essays and Orations, *Saturdays.* Principal authors referred to: (1) In Language, Marsh, Müller, Whitney, and Sayce. (2) In Literature, Taine, Arnold, Morley, and Shaw.
2. *Elocution.* Private Rehearsals of Orations.
3. *Astronomy.* Loomis' Astronomy, with Lectures. *Three hours a week.*
4. *Chemistry.* Lectures. The lectures are illustrated by experiments, and colored charts, and black-board exercises. Books of reference: Fownes' Chemistry, Roscoe and Schorlemmer's Chemistry, Cooke's Chemical Philosophy. *Three hours a week.*
5. *Physics.* (*a*) Lectures, illustrated by experiments, also (*b*) Recitations, both in writing and oral. Books of reference: Atkinson's Ganot, Deschanel's Natural Philosophy, Silliman's Physics. *Five hours a week.*

One of the following elective courses:

German. Schiller's *Jungfrau von Orleans. Two hours a week.*

Latin. (*a*) Horace's Ars Poetica. — (*b*) Selections from the Epistles. *Two hours a week.*

Greek. Two hours a week.

Civil Engineering. Two hours a week.

Second Half-Year.

1. *Logic.* Text-Book, Jevons' Logic. Principal authors referred to in Logic: Sir W. Hamilton, De Morgan, Thomas, Mill, Mansel, Bowen, and Fowler. *Three hours a week.*

2. *Physiology.* Lectures. Books of reference: in Anatomy, Quain and Gray; in Physiology, Dalton, Marshall, and Foster; in Hygiene, Buck. *Five hours a week.*

3. *Rhetoric.* (*a*) Manual of English Literature; study of authors. *Two hours a week.* (*b*) Essays and Orations, *Saturdays.*

4. *Elocution.* Private rehearsals of Orations.

A sufficient number of the following elective courses to make up *six hours a week.*

Latin. Juvenal, Terence, Latin Composition, Lectures. *Two hours a week.*

Greek. Plato. *Two hours a week.*

German. Lessing's *Emilia Galotti.* *Two hours a week.*

Zoology. (*a*) Lectures. *Two hours a week.* (*b*) Laboratory work. *Two hours a week.* Books of reference, Packard's Zoology. Huxley's Anatomy of the Invertebrates, Huxley's Anatomy of the Vertebrates, Gegenbaur's Elements of Comparative Anatomy. Packard's Outlines of Comparative Embryology.

Political Economy. Lectures. *Two hours a week.* Mill's Political Economy, Fawcett's Manual, Perry's Political Economy, Walker's Science of Wealth.

Analytical Chemistry. Laboratory practice. *Six hours a week.*

Physics. Laboratory work. *Four hours a week.*

Advanced Mechanics. *Two hours a week.*

Botany. (*a*) Lectures and field excursions. *Two hours a week.* (*b*) Laboratory work. *Two hours a week.*

Civil Engineering. *Two hours a week.*

SENIOR CLASS.

First Half-Year.

1. *Intellectual Philosophy.* (*a*) Lectures.—(*b*) Essays by the class. Sir William Hamilton's Lectures on Metaphysics. Mansel's Metaphysics. Wayland's Intellectual Philosophy. Porter's Human Intellect. Ueberweg's History of Philosophy. *Five hours a week.*

2. *History.* Mediaeval History, from the fall of the Western Empire to the Reformation —(*a*) by lectures —(*b*) by abstracts presented by the class. Guizot's European Civilization, Duruy's *Histoire du Moyen Age*, Gibbon's Roman Empire, Hallam's Middle Ages, Milman's Latin Christianity, Bryce's Holy Roman Empire, Kitchin's France, Stubbs' English Constitutional History. *Five hours a week.*

A sufficient number of the following elective courses to make up *six hours a week.*

Roman Law and *French.* *Two hours a week.*

Latin. Lucretius, with Lectures. *Two hours a week.*

Greek. Demosthenes, Oration on the Crown. *Two hours a week.*

German. Goethe's *Iphigenie.* *Two hours a week.*

Analytical Chemistry. Laboratory practice. *Six hours a week.*

Civil Engineering. *Two hours a week.*

Geology. (*a*) Lectures. *Two hours a week.* (*b*) Laboratory work. *Two hours a week.*—Books of reference: Dana's New Text-Book of Geology; Dana's Manual of Geology. Le Conte's Elements of Geology. Nicholson's Ancient Life-History of the Earth.

Second Half-Year.

1. *Moral Philosophy.* (*a*) Lectures, with (*b*) essays by the class. Wayland's Moral Science. Alexander's Moral Science. Kant's Metaphysic of Ethics (Semple's and Abbott's translations). Calderwood's Hand-Book of Moral Philosophy. References to various authors. *Five hours a week.*

Natural Theology, and Evidences of Christianity, by Lectures.

2. *History.* (*a*) Modern History, from the Reformation to the French Revolution — (*b*) Colonial History.—(*c*) Constitutional History of the United States; by lectures and abstracts. Duruy's *Histoire des Temps Modernes.* Hallam's Constitutional History of England, Stephen's Lectures on the History of France, Woolsey's International Law, Farrar's Manual of the Constitution. The Federalist. *Five hours a week.*

3. *Agricultural Zoology.* (A required course for students on State Scholarships.) *One hour a week.*

A sufficient number of the following elective courses to make up *five hours a week*, for students on State Scholarships, and *six hours a week* for all others.

Lectures on the History of Philosophy. One hour a week.

Latin. Two hours a week.

Greek. Two hours a week.

French. Two hours a week.

German. Goethe's *Faust. Two hours a week.*

English. Two hours a week.

Political Economy. Two hours a week.

Botany. (*a*) Lectures. *Two hours a week.* (*b*) Laboratory work. *Two hours a week.*

Civil Engineering. Two hours a week.

Geology, (continued). Lectures; *with a short course on Archæology and Ethnology. One hour a week.*

Analytical Chemistry. Laboratory practice. *Six hours a week.*

International Law. Lectures. *One hour a week.*

SECOND: FOR THE DEGREE OF BACHELOR OF PHILOSOPHY.

The following are the outlines of the courses; but they may be subjected to such modifications as are hereafter found advisable:

Course including an Ancient Language.

FRESHMAN CLASS.

First Half-Year.

1. Greek or Latin, *four hours a week.*
2. Algebra, *five hours a week.*
3. French, *two hours a week.*
4. Plane problems, *three hours a week.*
5. Mechanical drawing, *two hours a week.*
6. Hygiene.

Second Half-Year.

1. Greek or Latin, *five hours a week.*
2. Geometry and Trigonometry, *five hours a week.*
3. French, *two hours a week.*
4. Descriptive Geometry, *three hours a week.*
5. Mechanical drawing, *two hours a week.*

SOPHOMORE CLASS.

First Half-Year.

1. Greek or Latin, *two or three hours a week.*
2. General Geometry and Calculus; Spherical Astronomy, *five hours a week.*
3. French, *three hours a week.*
4. Rhetoric; Essays, *two hours a week.*
5. Elocution, *one hour a week.*
6. Shades and Shadows, *three hours a week.*

Course not including an Ancient Language.

FRESHMAN CLASS.

First Half-Year.

1. Algebra, *five hours a week.*
2. French, *two hours a week.*
3. Biology and Physical Geography, *three hours a week.*
4. Plane problems, *three hours a week.*
5. Mechanical and Free-hand drawing, *three hours a week.*
6. Hygiene.

Second Half-Year.

1. Geometry and Plane and Spherical Trigonometry, *five hours a week.*
2. French, *two hours a week.*
3. English Language, *three hours a week.*
4. Descriptive Geometry, *three hours a week.*
5. Mechanical and Free-hand drawing, *three hours a week.*

SOPHOMORE CLASS.

First Half-Year.

1. Analytical Geometry and Calculus, *five hours a week*
2. Rhetoric; Essays, *two hours a week.*
3. Elocution, *one hour a week.*
4. French, *three hours a week.*
5. Shades and Shadows, *three hours a week.*
6. Linear Perspective, *two hours a week.*

Second Half-Year.

The following required studies:

1. Greek or Latin, *three or two hours a week.*
2. Mechanics, *five hours a week.*
3. Rhetoric and Essays, *two hours a week.*
4. Elocution, *one hour a week.*
5. Either French, *three hours a week*, or German, *three hours a week.*
6. Either Surveying, *three hours a week*, or Applications of Calculus to General Geometry, *two hours a week.*

Course including an Ancient Language.

JUNIOR CLASS.

First Half-Year.

1. Rhetoric and English Literature, *three hours a week.*
2. Elocution.
3. Astronomy, *three hours a week.*
4. Chemistry, *three hours a week.*
5. Physics, *five hours a week.*

A sufficient number of the following elective courses to make up *two hours a week.*

German, *two hours a week.*
Latin, *two hours a week.*
Greek, *two hours a week.*
Civil Engineering, *two hours a week.*

Second Half-Year.

The following required studies:

1. Logic, *three hours a week.*
2. Physiology, *five hours a week.*
3. Rhetoric, *two hours a week.*
4. Elocution.

A sufficient number of the following elective courses to make up *six hours a week.*

Latin, *two hours a week.*
Greek, *two hours a week.*
German, *two hours a week.*
Zoology, *two hours a week.*
Political Economy, *two hours a week.*
Analytical Chemistry, *six hours a week.*
Physics, Laboratory work, *four hours a week.*
Advanced Mechanics, *two hours a week.*
Botany, *four hours a week.*
Civil Engineering, *two hours a week.*

Second Half-Year.

The following required studies:

1. Mechanics, *five hours a week.*
2. Rhetoric, *two hours a week.*
3. Elocution, *one hour a week.*
4. Applications of Calculus to General Geometry, *two hours a week.*
5. French or German, *three hours a week.*
6. Surveying, *three hours a week.*

Course not including an Ancient Language.

JUNIOR CLASS.

First Half-Year.

1. Rhetoric and English Literature, *three hours a week.*
2. Elocution.
3. Astronomy, *three hours a week.*
4. Chemistry, *three hours a week.*
5. Physics, *five hours a week.*

A sufficient number of the following elective courses to make up *two hours a week.*

German, *two hours a week.*
Civil Engineering, *two hours a week.*

Second Half-Year.

The following required studies:

1. Logic, *three hours a week.*
2. Physiology, *five hours a week.*
3. English Language, *two hours a week.*
4. Elocution.

A sufficient number of the following elective courses to make up *six hours a week.*

German, *two hours a week.*
Zoology, *two hours a week.*
Political Economy, *two hours a week.*
Analytical Chemistry, *six hours a week.*
Physics, Laboratory work, *four hours a week.*
Advanced Mechanics, *two hours a week.*
Botany, *four hours a week.*
Civil Engineering, *two hours a week.*

Course including an Ancient Language.

SENIOR CLASS.

First Half-Year.

The following required studies:

1. Intellectual Philosophy, *five hours a week.*
2. History, *five hours a week.*

A sufficient number of the following elective courses to make up *six hours a week.*

Roman Law and French, *two hours a week.*
Latin, *two hours a week.*
Greek, *two hours a week.*
German, *two hours a week.*
Analytical Chemistry, *six hours a week.*
Civil Engineering, *two hours a week.*
Geology, *four hours a week.*

Second Half-Year.

The following required studies:

1. Moral Philosophy and Natural Theology, *five hours a week.*
2. History, *five hours a week.*
3. Agricultural Zoology (a required course for students on State Scholarships), *one hour a week.*

A sufficient number of the following elective courses to make up *five hours a week* for students on State Scholarships; and *six hours a week* for all others.

Lectures on History of Philosophy, *one hour a week.*
Latin, *two hours a week.*
Greek, *two hours a week.*
French, *two hours a week.*
German, *two hours a week.*
Political Economy, *two hours a week.*
Botany, *four hours a week.*
Civil Engineering, *two hours a week.*
Geology, *one hour a week.*
Analytical Chemistry, *six hours a week.*
International Law, *one hour a week.*

Course not including an Ancient Language.

SENIOR CLASS.

First Half-Year.

The following required studies:

1. Intellectual Philosophy, *five hours a week.*
2. History, *six hours a week.*

A sufficient number of the following elective courses to make up *six hours a week.*

Roman Law and French, *two hours a week.*
German, *two hours a week.*
Analytical Chemistry, *six hours a week.*
Civil Engineering, *two hours a week.*
Geology, *four hours a week.*

Second Half-Year.

The following required studies:

1. Moral Philosophy and Natural Theology, *five hours a week.*
2. History, *five hours a week.*
3. Agricultural Zoology (a required course for students on State Scholarships), *one hour a week.*

A sufficient number of the following elective courses to make up *five hours a week* for students on State Scholarships; and *six hours a week* for all others.

Lectures on History of Philosophy, *one hour a week.*
French, *two hours a week.*
German, *two hours a week.*
Political Economy, *two hours a week.*
Botany, *four hours a week.*
Civil Engineering, *two hours a week.*
Geology, *one hour a week.*
Analytical Chemistry, *six hours a week.*
International Law, *one hour a week.*

DEPARTMENTS OF PRACTICAL SCIENCE.

Departments of Practical Science have been established in the University for the benefit of students who wish to prepare themselves for such pursuits as require especially the knowledge of mathematical and of physical science, and their applications to industrial arts.

In these departments provision has also been made for courses of instruction in "such branches of learning as are related to Agricultural and the Mechanic Arts." This provision has been made in accordance with an "Act of Congress granting lands for the establishing of Agricultural Colleges," and with "Resolutions of the General Assembly of the State of Rhode Island, accepting these lands, and assigning the same to Brown University." Students who enter only for these studies, either in full or in part, are subject to the same conditions of admission as for any select course; and when they have duly pursued such studies, they will be entitled to a certificate stating the time of their University residence, and the amount of their acquisitions. They may, however, pursue these studies in connection with "the regular scientific and classical studies of the University," and when they have so pursued them as to fulfill the requirements for the degree of Bachelor of Arts or of Bachelor of Philosophy, they will be entitled to these degrees.

I. CHEMISTRY APPLIED TO THE ARTS.

The Chemical Laboratory is open to students (except on Saturdays) from 8.30 A. M. to 2.30 P. M.

It is the design of this department to teach students Analytical chemistry, and then to direct their studies to the practical applications of chemistry. Attention is given to metallurgy, pharmacy, medical chemistry, agricultural chemistry, and the application of chemistry to manufacturing processes.

The course is not confined to undergraduates; other persons — if prepared to pursue the study to advantage — are admitted to the Laboratory. But a knowledge of the general principles of Chemistry is absolutely necessary to profitable study in this department.

The text-books used are:

Appleton's Qualitative Chemical Analysis, and Appleton's Quantitative Chemical Analysis, Thorpe's Inorganic Chemistry, Thorpe's Chemical Problems, Cairns' Quantitative Analysis.

II. CIVIL ENGINEERING.

The regular course in this department occupies four years, but a longer or shorter course may be pursued, according to the wants or abilities of students. Those who are unable to pursue a full course, will find the studies so arranged that the knowledge and practice acquired in only a partial course will be practical and available. Ample provision will be made for the instruction of any who desire a more extended course than is here indicated, in Engineering and in Higher Mathematics.

The following is the order of study for the regular course:

First Year. Use of Mathematical instruments, including Line drawing, Pen shading, Graphical construction of Plane problems; Free-hand drawing and shading; use of Mathematical tables; Trigonometry, and its application to the measurement of areas; Plane surveying, including the theory and adjustment of instruments, Field practice, Plotting surveys, and descriptive Geometry.

Second Year. Differential and Integral Calculus; Shades and Shadows and linear Perspective, and Isometrical Drawing.

Third Year. Theory of structure, embracing the construction of foundations, Stone and Brick masonry; and detailed drawings of the same; Calculation and geometrical representation of the strain on trusses and girders; Drawing of Plans, Profiles, Elevations, and Sections.

Construction of machinery and bridges, and drawings of the same; Strength of materials used in construction; Estimation of resistance of Friction and rigidity; and Hydraulics, embracing the structure and use of hydraulic machines, the investigation of the laws which govern the flow of water from reservoirs and the flow of water in rivers, canal and conduit pipes, and water used as a motor.

Fourth Year. Weisbach's Mechanics, or Mahan's Civil Engineering.

To pursue this course to the best advantage, the following mathematical studies taught in the University, should be pursued in connection with those above mentioned, viz.: Algebra, Geometry, Plane and Spherical Trigonometry, Analytical Geometry, and Calculus.

Students desiring admission to this course are subjected to an examination on the same amount of Mathematics as is required of candidates entering for a degree.

III. PHYSICS.

The laboratory of the Department of Physics provides instruction during the second half-year to a limited number of students, who show special aptitude for this study, and are desirous of familiarizing themselves with the construction and use of physical apparatus and with the means of investigation.

A course of experiments in Sound, Light, Heat, and Electricity, involving the principal phenomena and most important methods of measurement, has been arranged with reference to the needs of beginners. Apparatus available for more advanced students and for researches has been purchased recently, with the view of meeting the demand for special instruction in Physics.

IV. BOTANY.

Instruction in Botany is given by means of lectures, in which free use is made of the black-board and diagrams. The course embraces the necessary morphological and physiological subjects,

and is supplemented by practical class-work in which each student employs the dissecting microscope in examining specimens. Great stress is laid upon the importance of drawing from nature, and students are taught to make illustrative sketches.

Each student of botany is expected to pay a small fee for the cost of specimens used in class-work.

At the proper season excursions are made, under the guidance of the Professor, to neighboring points of botanical interest. At such times students are shown how to collect and preserve specimens.

The following works are recommended for reference: Gray's Botanical Text-Book, Gray's Manual of the Northern States, Sachs' Text-Book of Botany, Le Maout and De Caisne's General System of Botany, Bessey's Botany.

Under proper restrictions, the Herbaria are made accessible to students, for the determination and comparison of species; every courtesy will also be extended to visiting botanists who desire to consult them.

The Bailey Herbarium.

This collection, presented by Professor W. Whitman Bailey, B. P., contains *eighteen hundred* specimens, and about *fifteen hundred* species, American and foreign. Besides the donor's own personal collection, it contains many specimens from the herbarium of Mr. J. L. Queket, the distinguished English microscopist. It is rich in ferns.

Herbarium Olneyanum.

This valuable collection, presented to Brown University by the will of the late Stephen Thayer Olney, of Providence, is estimated to number about *forty thousand* specimens; it illustrates American botany, and is particularly rich in the plants of Rhode Island. The specimens are in good order for consultation.

Mr. Olney's botanical studies, continuing for many years, brought him into relations of active exchange with the leading collectors of this country. He also made large purchases of plants, and thus accumulated a valuable mass of material which it would now be difficult to duplicate. The correspondence which accompanies the herbarium covers a period of thirty or more years. It includes communications from Sir Joseph D. Hooker of Kew, Baron von Mueller of Melbourne, Professor Asa Gray, Professor John Torrey, Professor D. C. Eaton, Mr. Francis Boott, and other eminent botanists. Mr. Olney was an acknowledged authority on the difficult genus *Carex*, and his collection of sedges must for a long time remain exceptional. In the last years of his life he began a monograph of *Carex*, the notes of which, and the drawings by Mr. J. H. Emerton, accompany his bequest.

Below are extracts from Mr. Olney's will:

"First. Having given to BROWN UNIVERSITY my *herbarium*, my *botanical and scientific books* (712 volumes), my *microscopes*— one Chevalier's, the other Smith and Beck's,—*the cases in which the plants and books are contained, and the table* on which the Chevalier microscope is mounted, I hereby direct that in case all these shall not have been delivered to said BROWN UNIVERSITY, they shall be so soon as said BROWN UNIVERSITY shall comply with the following conditions of said gift;— First, the said BROWN UNIVERSITY shall furnish a fire-proof depository for said herbarium, library, microscopes, and other gifts above enumerated, within a year from my decease. Second, The herbarium shall be entitled the '*Herbarium Olneyanum.*' For the increase of this collection by purchases of plants and of scientific books; also by purchase of botanical works, it is my intention to provide."

The Bennett Herbarium.

This valuable herbarium is the gift of Mr. JAMES LAWRENCE BENNETT, an accomplished amateur botanist of Providence.

It includes about *thirteen thousand* species, and probably over *thirty thousand* specimens, and has involved thirty years of assiduous labor in its accumulation. American botany is well represented, but the foreign specimens are the more numerous; many of them are derived from remote and, in some cases, almost inaccessible regions of the globe.

The completeness with which the natural orders are illustrated, as well as the wide geographical range exhibited, make this herbarium an important addition to the means of instruction in the University.

V. ZOOLOGY AND GEOLOGY.

Zoology, with especial reference to Palæontology, is taught by lectures, laboratory work (forming a course of comparative anatomy), and by dredging and collecting excursions in Narragansett Bay and near the city, with especial reference to the local fauna.

Instruction in Geology is given by means of lectures and models, laboratory work and field excursions, with special reference to the geology, structural and economic, of Rhode Island.

Within the last three years there have been added for use in the lectures and laboratory work, several of Guyot's Physical wall maps; two Zentmeyer's Histological stands, with a number of objectives made by Gundlach; osteological preparations; a set of Sopwith's geological models; and a large model in plaster, in sections, made by the Hayden Survey, illustrating the geology of the Elk Mountains, Colorado. Besides these, a set of microscopic slides, of use in the study of lithology, has been purchased, as well as a collection of twenty sets of the more typical minerals and rocks for use by each student.

Besides field excursions near the city, the instructor has taken out a small party to the Western Territories, and proposes occasionally to organize similar excursions to other parts of the country.

VI. AGRICULTURE.

The course of instruction in Agriculture includes the courses in the preparatory branches, Chemistry and Physics, Botany, Physiology, Zoology, and Comparative Anatomy. It also includes special lectures on Agriculture. These relate to the study of soils

and applied economic Zoology. The course of instruction is illustrated by specimens from the Museum of Natural History, and by field excursions. It also includes practical instruction in obtaining and preserving specimens, and in taxidermy.

MUSEUM OF NATURAL HISTORY AND ETHNOLOGY

IN RHODE ISLAND HALL.

The Museum is under the care of Professor John W. P. Jenks. The collections it now contains, as classified and arranged by Professor Jenks, are as follows:

1.	In Zoology, including skeletons for Comparative Anatomy,	
	Quadrupeds	200
	Birds (500 mounted)	5,000
	Reptiles and Fishes	700
	Insects	10,000
	Crustaceans	1,000
	Worms	500
	Mollusks	13,500
	Echinoderms	150
	Coral and Hydroids	200
	Sponges	40
2.	In Mineralogy, specimens	9,659
3.	In Geology and Palæontology, specimens	5,000
4.	Botany (miscellaneous collections)	500
	(For account of Herbaria see pp. 41–42.)	
5.	Indian Implements and Relics, specimens	1,000
6.	Implements and curiosities of other uncivilized peoples,	700
7.	Coins and Medals,	2,500

LIBRARY.

The University Library is now arranged in the new fire-proof building erected by the munificence of the late John Carter Brown, A. M.

According to the last annual report of the Library Committee, the University Library consists of above *fifty-two thousand* volumes, and *seventeen thousand* unbound pamphlets.

Upon the Library tables may be found the most important American and foreign periodicals, pertaining to science, history, literature, bibliography, philology, and the classics.

During the presidency of Dr. Wayland, a permanent Library fund of Twenty-five thousand dollars was raised. It has since been increased to above Thirty-seven thousand dollars. Of this the sum of Five hundred dollars was derived from a bequest of President Wayland; Ten thousand dollars from a bequest of the late Stephen Thayer Olney, of Providence.

Books are purchased from the income of the library funds under the direction of a joint committee of six persons, appointed annually by the Corporation and the Faculty of the University.

During the past year the Library has received, among others, the following gifts:

Thirty-six bound volumes of rare pamphlets from the late Caleb Fiske Harris, A. M., of Providence; 9 volumes from the late Prof. Jeremiah Lewis Diman; a set of Knights' Gallery of Portraits, presented in memory of Professor Diman "by a company of his friends who had attended courses of evening lectures by him;" 10 volumes relating to the history of Pennsylvania, from the author, Samuel Penniman Bates, LL. D., of the Class of 1851; 15 volumes of the Official Gazette of the United States Patent Office, and 16 volumes of Agricultural and Patent Office reports received through Nathaniel Parker Hill, A. M. (Class of 1859), United States Senator from Colorado; 22 volumes of Congressional documents from the late Ambrose Everett Burnside, A. M., United States Senator from Rhode Island; 12 volumes of Proceedings, etc., of the Royal Institution of London, from Frederic Allen Gower, Esq., of London and Paris; 10 volumes and 113 pam-

phlets from Samuel A. Green, M. D., Librarian of the Massachusetts Historical Society; a Shan and English Dictionary from the author, Josiah Nelson Cushing, D. D. (Class of 1862), Missionary to Burmah; also from the same, the British Burmah Gazetteer, a work recently published in Rangoon, in two large quarto vols.; and from the same, a complete set of the Buddhist Canonical or Sacred Books, written with a stylus, on palm leaves, in the ancient Pali dialect.

In term-time the Library is open from 10 A. M. to 3 P. M. on every week day except Saturday; on Saturdays it is open from 10 A. M. to 2 P. M. During vacations it is open on Saturdays.

The following are the General Regulations, relating to the use of the Library, and adopted by the Corporation, June 20, 1878:

1. It is the desire of the Corporation that, so far as may be practicable, the books of the Library shall be consulted and used at the tables, without being taken from the Library building.

2. The Library shall be open not less than four hours a day, except Saturdays, when it shall be closed at twelve. During vacations it shall be open not less than once a week, at such hours as the Library Committee may prescribe.

3. The members of the Corporation, the President, Professors, Instructors, Tutors, Registrar, resident graduates, and all donors to the funds of the University to the amount of five hundred dollars, residing in the City of Providence, together with any others to whom the Corporation or the Library Committee may grant the privilege, shall be entitled to the use of the Library without expense. The undergraduates shall be entitled to the use of the Library, and shall be charged therefor the sum of five dollars per annum.

4. The privilege of reading or consulting books in the Library, during Library hours, shall be extended to college graduates generally, to clergymen of every denomination, and to all other persons on whom the Corporation or Library Committee may from time to time confer it.

5. Not more than three volumes at one time shall be allowed to the undergraduates, who may keep the same two weeks, with the privilege of renewal at the discretion of the Librarian.

6. The officers of instruction shall not, without special permission of the Library Committee, be allowed to borrow more than twenty volumes at a time, and they shall not keep the same longer than three months.

7. Borrowers can take books only after they have been charged to

them by the Librarian or his Assistant, and if they send for books, they must sign and date an order.

8. For every book not returned at the time specified, the borrower shall pay a fine of ten cents a day until it shall be returned.

9. No person shall lend to any one a library book, or let it go out of his personal custody; and the borrower alone shall be responsible for the book while it is charged to him.

10. No borrower shall write or mark in a book belonging to the Library, or turn down the leaves of the same.

11. When there are two or more copies of the same book, the least costly or rare shall be loaned first; and the Librarian shall use his discretion in regard to the lending of works not easily replaced.

12. Undergraduates who leave Providence for an absence of more than one week, must first return all borrowed books.

13. All the books, whether in possession of undergraduates, resident graduates, officers of instruction, members of the Corporation, or others, shall be returned to the Library on or before the Wednesday preceding Commencement. Any person who may fail to comply with this requirement, shall pay one dollar for each volume of which he retains possession.

N. B.— Degrees are not granted until the candidate has exhibited to the Registrar a certificate that he has paid all fines incurred, and returned in good order, or replaced, every book that he has borrowed; or, in default thereof, has deposited with the Librarian the full value of it in money.

PUBLIC WORSHIP.

The exercises of every day commence with Prayers in the College Chapel. All students are also required to attend public worship on Sunday. For this purpose, each one reports to the President, at the beginning of the term, the church which he will attend.

COLLECTION OF PORTRAITS.

Through the liberality of the friends of the College, many portraits have been presented to it; the most of them are deposited in the picture gallery in Rhode Island Hall. The collection includes portraits of benefactors of the University, of some of its former officers, and of men whose names are conspicuous in the earlier or the more recent annals of Rhode Island.

This collection has been enriched during the past year by the following gifts:

A portrait of the late Rev. Jeremiah Lewis Diman, D. D. (Class of 1851), Professor of History and Political Economy. An oil painting by Frederic P. Vinton. Presented by Mrs. William Goddard "in behalf of a number of ladies."

The following were presented through a committee appointed by the Alumni "for the purpose of procuring and placing within the walls of Brown University, the portraits of her Presidents, Professors, distinguished graduates and benefactors":

A portrait of Hon. Rowland Gibson Hazard, LL. D., the gift of his sons, Rowland Hazard, A. M., and John Newbold Hazard. An oil painting by John Selinger.

A portrait of the late Hon. Theron Metcalf, LL. D. (Class of 1805), Judge of the Supreme Court of Massachusetts. A crayon portrait, the gift of his daughter, and his son, Theodore Metcalf.

A portrait of the late Hon. John Brown Francis, A. B. (Class of 1808), Chancellor of Brown University; Governor of the State of Rhode Island; United States Senator from Rhode Island. The gift of his daughter, Mrs. Marshall Woods. An oil painting, copied by John N. Arnold, from the original by G. P. A. Healy.

A portrait of the late Hon. John Henry Clifford, LL. D. (Class of 1827), Governor of Massachusetts. An oil painting presented by his widow.

A bust of the late Hon. La Fayette Sabine Foster, LL. D. (Class of 1828), Judge of the Supreme Court of Connecticut; United States Senator from Connecticut. A bust in plaster by Calverly, of New York. The gift of his widow.

GYMNASIUM.

The Corporation makes an appropriation each year for the rent of a Gymnasium Hall, most of the apparatus in which belongs to the University. Students have access to this hall, with the use of all the apparatus in it, on payment of two dollars a year to the keeper of the Gymnasium.

SEMI-ANNUAL EXAMINATIONS.

Examinations of all the classes are held at the close of each half-year.

Some examinations are conducted by writing, some are oral, while in certain cases the same class is subjected to both tests. If, upon examination in a given study, a student receives a mark which is less than one-half the maximum offered, he fails to "pass" in that study, and must prepare himself for a subsequent examination.

Committees of Examination have been appointed for the several departments as follows:

1. Greek.

Rev. Thatcher Thayer, D. D. Merrick Lyon, LL. D.
Rev. Heman Lincoln, D. D. Edward H. Cutler, A. M.
Rev. John B. G. Pidge, A. M.

2. Latin.

Rev. John C. Stockbridge, D. D. Horatio N. Slater, Jr., A. M.
Alexander Farnum, A. M. Frederick W. Tilton, A. M.
Charles B. Goff, A. M. Rev. C. H. Wheeler, A. M.

3. German.

Rev. Alvah Hovey, D. D.
Stephen H. Arnold, Esq.
Gustav Radeke, M. D.
Samuel W. Peckham, A. M.
Rev. Carl W. Ernst, A. M.
Joseph C. Ely, LL. B.

4. French.

William Goddard, A. M.
Edwin M. Snow, M. D.
Edward T. Caswell, M. D.
Howard M. Rice, A. M.
David W. Hoyt, A. M.

5. Rhetoric and English Literature.

Rev. Adoniram J. Gordon, D. D.
Rt. Rev. Thomas M. Clark, D. D.
Rev. J. G. Vose, D. D.
Rev. S. D. Phelps, D. D.
J. Carter Brown Woods, LL. B.

6. Physiology.

Edwin M. Snow, M. D.
S. S. Keene, M. D.
J. C. Greenough, A. M.
Oliver C. Wiggin, M. D.
L. W. Russell, Esq.

7. Physics.

Hon. Rowland Hazard, A. M.
William A. Mowry, A. M.
Arnold B. Chace, A. M.
Prof. George I. Chace, LL. D.
Hon. Samuel Powel.
Prof. John Peirce, A. M.
George H. Corliss, A. M.

8. History and Political Economy.

Hon. Charles S. Bradley, LL. D.
Hon. John R. Bartlett, A. M.
Prof. William Gammell, LL. D.
Rev. Augustus Woodbury, A. M.

9. Intellectual and Moral Philosophy.

Rev. Alva Woods, D. D.
Rev. Alvah Hovey, D. D., LL. D.
Rowland G. Hazard, LL. D.
Prof. George I. Chace, LL. D.
Rev. Daniel Leach, D. D.

10. Mathematics and Astronomy.

Zachariah Allen, LL. D.
J. Herbert Shedd, Esq.
Emory Lyon, M. D.
Charles P. Robinson, A. M.
Edward Pearce, Jr., A. M.
William T. Peck, A. M.

11. Chemistry.

Arnold B. Chace, A. M. Marshall Woods, M. D.
Prof. John Peirce, A. M. Amasa M. Eaton, LL. B.

12. Logic.

Rev. A. H. Granger, D. D. Hon. Thomas Durfee, LL. D.
William W. Douglas, LL. B. Rev. Elias H. Johnson, D. D.

EXPENSES.

The College expenses for the year are as follows:

Tuition, $50.00 per half-year	$100 00
Room rent, $10.00 per half-year	20 00
(But rooms or suites in Slater Hall vary in rent from $25.00 to $155.00 per annum.)	
Use of Library, $2.50 per half-year	5 00
Registrar's salary, $2.00 per half-year	4 00
Public fuel, Servants' hire, Printing, Charged at cost, but average about	22 00
	$151 00

If a student occupies a room alone, his rent and servants' hire are doubled.

Upon admission to College, every student is charged a matriculation fee of $5.00.

The term bills are paid strictly in advance, at the commencement of each half-year.

Board is not furnished in College. The Registrar keeps a list of the names of families in the city by whom board is furnished to students. The following are the usual rates:

Board, at from $3.00 to $5.00 per week. By the formation of boarding clubs, students are enabled to somewhat reduce their expenses. (The larger proportion of students pay at present

about $3.00 per week for board.) Board, with furnished rooms, from $5.00 to $7.00 per week.

The foregoing estimate for tuition does not include the fees for instruction in Analytical Chemistry.

The expenses of a student who takes a course of study of two hours daily in the Chemical Laboratory, are (for each half-year) as follows:

Tuition	$16 66
Gas, chemicals, etc.	18 34
Breakage (varying with the student's care), about	3 00
	$38 00

Students who take courses of four hours or of six hours daily, pay respectively double or treble the above amounts.

PECUNIARY AID TO STUDENTS.

Scholarships.

Among the various forms of aid offered to students, there are about one hundred scholarships.

There are *sixty-four* Scholarships of One Thousand Dollars each, the income of which is given, under the direction of a committee appointed by the Corporation, to meritorious students who may need pecuniary assistance; *but a scholarship is forfeited if the candidate incurs college censure, or fails to secure at least seventy-five per cent. of the maximum mark.*

The Nicholas Brown Scholarships. Eleven, founded by a bequest made by Nicholas Brown.

The University Scholarships. Four, from College funds appropriated by the Corporation to this use.

The President's Scholarship. Founded by Barnas Sears, when President of the College.

Alva Woods Scholarships. Six, founded by Alva Woods.

James H. Duncan Scholarship. Founded by James H. Duncan.

Isaac Davis Scholarship. Founded by Isaac Davis.

Arnold Whipple Scholarship. Founded in memory of Arnold Whipple, by Mrs. Arnold Whipple.

Ephraim Wheaton Scholarship. Founded by James Wheaton.

Joseph Brown Scholarship. Founded by Mrs. E. B. Rogers.

Gardner Colby Scholarship. Founded by Gardner Colby.

James Y. Smith Scholarship. Founded by James Y. Smith.

S. S. Bradford Scholarships. Two, founded by S. S. Bradford.

Francis R. Arnold Scholarship. Founded by Mrs. Francis R. Arnold.

Cornelia E. Green Scholarship. Founded by Mrs. Cornelia E. Green.

Crocker Scholarship. Founded by Robert H. Ives and Thomas P. Ives.

Clark Scholarship. Founded by Robert H. Ives and Thomas P. Ives.

Albert Day Scholarship. Founded by Albert Day.

Henry P. Kent Scholarship. Founded by Henry P. Kent.

Romeo Elton Scholarship. Founded by Romeo Elton.

Annie E. Waters Scholarships. Five, founded by Mrs. Annie E. Waters.

L. Fairbrother Scholarship. Founded by Mrs. L. Fairbrother.

George Lawton Scholarship. Founded by George Lawton.

John P. Crozer Scholarship. Founded by Mrs. Margaret Bucknell.

Horatio N. Slater Scholarship. Founded by Horatio N. Slater.

Earl P. Mason Scholarship. Founded by Earl P. Mason.

Newport Scholarship. Founded by William Sanford Rogers.

Alexis Caswell Scholarship. Founded by Alexis Caswell.

G. K. and H. A. Pevear Scholarship. Founded by G. K. and H. A. Pevear.

Joseph C. Hartshorn Scholarship. Founded by Joseph C. Hartshorn.

Rogers High School Scholarship. Founded by William Sanford Rogers.

James Wheaton Scholarship. Founded by James Wheaton.

Charles Thurber Scholarship. Founded by Charles Thurber.

Pardon Miller Scholarship. Founded by Mrs. Ann E. Miller.

Hezekiah S. Chase Scholarship. Founded by Hezekiah S. Chase.

William Bucknell Scholarship. Founded by William Bucknell.

Austin Merrick Scholarship. Founded by Mrs. Olive E. Merrick.

Jackson Scholarships. Three, founded by Henry Jackson.

Mumford Scholarship. Founded by Mrs. Louisa D. Mumford.

Henry Clifford Knight Scholarship. Founded by Miss Amelia S. Knight, in memory of her brother, a member of the Class of 1875.

Besides the above scholarships, there are others, the assignment of which is made subject to special provisions. These are as follows:

The Bartlett Scholarship. Founded by Mrs. Elizabeth Slater Bartlett, by a gift of four thousand dollars, the income of which is to be "devoted to the support of one or more students needing pecuniary aid, and giving promise by studious aims and by character and scholarship of rising to distinction and usefulness."

The Glover Scholarships. Founded by a gift of five thousand dollars, from Henry R. Glover, "in memory of his father, Sam-

UEL GLOVER, a graduate of the College, of the Class of 1808, and of his brother, SAMUEL GLOVER, JR., of the Class of 1839." Assignment is made upon the basis of character and attainments.

The Scholarship of the Class of 1838, of thirty-eight hundred dollars. Founded by members of THE CLASS OF 1838, and also assigned upon the basis of character and scholarship.

Scholarship of the Department of Agriculture. By Resolutions of the General Assembly of the STATE OF RHODE ISLAND, the national grant, "for the benefit of Agriculture and the Mechanic Arts," was given to Brown University; and the fund of fifty thousand dollars, which has accrued from this grant, is by agreement on the part of the University devoted to the education "of scholars, each at the rate of one hundred dollars per annum, to the extent of the entire annual income." Appointments to these scholarships are made, on the nomination of the General Assembly, by the Governor and Secretary of State, in conjunction with the President of the University.

The Philadelphia Alumni Scholarship. This scholarship has been created by the gift, from the "PHILADELPHIA ALUMNI ASSOCIATION OF BROWN UNIVERSITY," of the sum of fifteen hundred dollars. The award of this scholarship is to be in accordance with the following conditions:

"1st. That the scholarship be not confined to candidates for any one calling, or to the members of any one denomination.

"2d. That it be conferred on the basis of high attainments, mental and moral, and be, so far as practicable, open to competition, so that the possession of the scholarship shall testify to the qualifications of the possessor, and that it be limited to members of the two higher classes."

The Joseph Charles Hartshorn Scholarship. This is a second scholarship, founded by a gift of two thousand dollars, from the gentleman whose name it bears. The annual award is made in accordance with certain conditions prescribed by the donor.

Aid Fund.

A fund of something over eight thousand dollars has been given to the University by two of its friends. The income of this fund is to be applied — either by loan or by gift — to the assistance of deserving young men of limited means.

PREMIUMS.

I. For Excellence in Preparatory Studies.

The President's Premiums. These are derived from the income of a fund presented by Rev. Francis Wayland, D. D., while President of the University. They are awarded to those members of the Freshman class, candidates for the degree of Bachelor of Arts, or of Bachelor of Philosophy, who are found, *upon special examination*, to have attained the highest excellence in the classical studies preparatory to admission to College. They are fixed by statute as follows:

A First Premium of fifteen dollars, and a second of ten dollars, for excellence in the Greek language.

A First Premium of fifteen dollars, and a second of ten dollars, for excellence in the Latin language.

The competitors are examined in the classical studies required as preparatory for admission to the College.

This year (1881), the award of these premiums was as follows:

Greek.

The First Premium to Edward Augustus George, instructed by Charles B. Goff, A. M., in Mowry & Goff's English and Classical School, Providence.

The Second Premium to Ferdinand Courtney French, instructed by Edward H. Cutler, A. M., in the Providence High School.

Latin.

The First Premium to FERDINAND COURTNEY FRENCH, instructed by Edward H. Cutler, A. M., in the Providence High School.

The Second Premium to EDWARD AUGUSTUS GEORGE, instructed by Charles B. Goff, A. M., in Mowry and Goff's English and Classical School, Providence.

An additional *Second Premium* to FRANK LOCKE TITCOMB, instructed by Edward H. Cutler, A. M., in the Providence High School.

Mathematics.

The Hartshorn Premiums. These are derived from the income of a fund presented by JOSEPH C. HARTSHORN, A. M., of the class of 1841; the income is appropriated to *three premiums*, viz.:

A First Premium of thirty dollars.

A Second Premium of twenty dollars.

A Third Premium of ten dollars.

These are awarded to those members of the Freshman class who are found, upon examination, to have excelled in the preparatory mathematical studies.

This year (1881), these Premiums were awarded as follows:

The First Premium to ELMER CASE, instructed by George W. Flint, A. M., in the Collinsville High School, Collinsville, Conn.

The Second Premium to AMORY PRESCOTT FOLWELL, instructed by E. P. Sisson, A. M., in the Colgate Academy, Hamilton, N. Y.

The Third Premium to OLIN SYLVESTER DAVIS, instructed by Sylvester Dixon, A. M., in the New Hampshire Conference Seminary, Tilton, N. H.

II. For Excellence in College Studies.

Carpenter Prizes for Elocution. These are: A First Prize of *sixty* dollars. A Second Prize of *thirty-six* dollars. A Third Prize of *twenty-four* dollars.

They are derived from the income of a fund established by Thomas Carpenter. They are awarded annually to the three members of the Sophomore Class to whom shall be assigned respectively the first, second, and third rank of excellence in speaking. The assignment is made by a committee appointed for the purpose, and after trial at a public exhibition given on the Monday evening before Commencement.

The competitors must be members of the Sophomore Class; they may declaim pieces in prose or verse, selected from English authors, but their selection must be approved by the Professor of Rhetoric; they must enter their names with this Professor not later than on the tenth day before the exhibition.

The Committee of Award will consist of five members, and will be formed as follows: the Professor or Instructor in Elocution, who will be the Chairman, two persons elected by the Corporation, also two elected by the Sophomore Class during the first term of the year, it being understood that no one who is or has been a member of the class is eligible.

The Committee for 1881 awarded the prizes as follows:

The First, to Ira Barrows.

The Second, to Charles Monroe Sheldon.

The Third, to Alfred Williams Anthony.

The Carpenter Premiums. These afford two premiums of sixty dollars each, derived from the income of a fund established by Thomas Carpenter and Lydia Carpenter.

These premiums are assigned at the *end of the Senior year*, to the two members of the Senior Class, who, "already on Scholarships, shall, in the judgment of the Faculty, unite in the highest degree the three most important elements of success in life, ability, character, and attainment."

For the year 1880–81, the Carpenter Premiums were awarded to

Charles Evans Hughes
and
Charles Carney Mumford.

The Howell Premium. This fund, amounting to one thousand dollars, was presented by the late GAMALIEL LYMAN DWIGHT. The income is given, at the *close of the first half of the Junior year*, to the student "who, having a good record of deportment, has the highest rank in Mathematics and Natural Philosophy."

For the year 1880–81 this premium was awarded (February, 1881), to

WILLIAM HENRY POMEROY.

The Dunn Premium. This fund, amounting to something over eight hundred dollars, was presented by pupils and friends of the late PROFESSOR ROBINSON POTTER DUNN, D. D., the income to be given at the *end of the Junior year*, to the student having the highest standing in rhetorical studies.

For the year 1880–81 this premium was awarded to

WILLIAM HENRY POMEROY.

Class of 1873 Fund. This fund, amounting to five hundred dollars, was presented to the University by THE CLASS OF 1873, on the condition that its income should be devoted to constituting a prize for an Essay. The prize is annually offered for competition to members of the Senior Class.

The subject assigned in January, 1881, was

"*The Character of Erasmus.*"

On Commencement Day, June 15, 1881, the President announced the prize as assigned to the essay written by

HORACE WARD SHELDON.

The Foster Premium. This premium is derived from the income of a fund of three thousand dollars bequeathed to the University by the late HON. LA FAYETTE SABINE FOSTER, LL. D., of the Class of 1828.

In accordance with the terms of the will the income of this fund is to be "annually paid to that scholar of the institution who passes the best examination in the Greek language, the examination to

be made in the first, third, and twenty-fourth books of Homer's Iliad, or in the Oration on the Crown by Demosthenes." The first examination, open to the members of the Senior Class, will be held early in May, 1882. Candidates will be examined in the Oration on the Crown.

COMMENCEMENT HONORS IN THE CLASS OF 1881.

The Valedictory Address, Walter James Town.
The Salutatory Oration, George Fremont Bean.
The Classical Oration, Charles Evans Hughes.
The Philosophical Oration, William Coffin Ladd.

DEGREES CONFERRED IN 1881.

THE DEGREE OF BACHELOR OF ARTS,

Upon the following Members of the Class of 1881:

Charles Francis Adams,
William Cotter Baker,
Benjamin Barker, Jr.,
George Fremont Bean,
George Bickford Brigham,
Percy Shelley Burbank,
Walter Orestes Cartwright,
William Sheafe Chase,
Charles Walter Connell,
Howard Potter Cornell,
Samuel Winslow Culver,
William Frederick Denfeld,
Paul Coffin Gifford,
John Russell Gladding,
Frederic Hayes,

Frederick Rowland Hazard,
Alfred Howland Hood,
Charles Evans Hughes,
Samuel Lafayette Irons,
Howard Clifton Jewett,
William Coffin Ladd,
John Murray Marshall,
Franklin Garrett McKeever,
Charles Carney Mumford,
Henry Clay Peepels,
Cornelius Welles Pendelton,
William Llewellyn Phillips,
Horace Wadleigh Rice,
Wilber Taylor Rice,
Henry Brayton Rose,
Horace Ward Sheldon,
James Davis Simmons,
Edward Williams Taft,
John Alvah Taylor,
Walter James Town,
Daniel Sumner Wilson.

THE DEGREE OF BACHELOR OF ARTS,

UPON

Carver Howland, U. S. A.

THE DEGREE OF BACHELOR OF PHILOSOPHY,

Upon the following Members of the Class of 1881:

Morgan Brooks,
Frank Herbert Gifford,
Jacob Kettner,
William Ellery Peckham,
William Baird Silvey,
Edwin Lajette Thurston.

THE DEGREE OF MASTER OF ARTS,

UPON

Samuel Lenord Caldwell, of the Class of 1875.
James Curtis Lamb, of the Class of 1876.

And upon the following members of the Class of 1878:

Caleb Ambrose Burbank,
Robert Willard Burbank,
Gideon Albert Burgess,
Charles Frederic Butterworth,
Richard Case,
Harold Chessman Childs,
Abel Chalkley Collins,
Alfred Nelson Fairbank,
William Gammell, Jr.,
Clarence Miles Godding,
Walter Sumner Hayward,
Jules Adolph Hobigand,
George William Hopkins,
Elton Hoyt,
William Brown Martin Miller
Oliver Buchanan Munroe,
Stephen Wescott Nickerson,
Charles Le Roy Pulcifer,
William Mauran Stockbridge
William Howard Sweetland,
Walter Gardner Webster,
George Franklin Weston,
Freeman Tupper Whitman,
Isaac Oscar Winslow.

THE DEGREE OF MASTER OF ARTS,

UPON

John Woodbury Sawyer, M. D., of Providence.

THE DEGREE OF DOCTOR OF DIVINITY,

UPON

Josiah Nelson Cushing, of Burmah.

THE DEGREE OF DOCTOR OF LAWS,

UPON

Hon. Francis Wayland, of New Haven.

CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

BROWN UNIVERSITY

1882-83.

PROVIDENCE:
PRESS OF J A. & R. A. REID.
1882.

Issued, November, 1882.

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Brown univ.

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1882-83.

1882	SUN.	MON.	TUES.	WED.	THUR.	FRI.	SAT.
July	..	..	..	..	..	..	1
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1883	SUN.	MON.	TUES.	WED	THUR.	FRI.	SAT.
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CALENDAR FOR 1882-83.

1882.

September 6, *Wednesday.* Annual Meeting of the Corporation.

September 20, *Wednesday.* Academic Year Begins (third Wednesday in September).

November 30, *Thursday.* Thanksgiving Day. (No College exercises on Thursday, Friday, and Saturday of Thanksgiving week).

Christmas Holidays, from evening of Friday, December 22, 1882, to evening of Tuesday, January 2, 1883.

1883.

January 19–24, *Friday* to *Wednesday.* Semi-Annual Examination of College Classes.

January 25, *Thursday.* Second Half-year Begins.

February 22, *Thursday.* Washington's Birthday. No College exercises.

Spring Recess, Saturday, March 24, to Monday evening, April 2.

April 14, *Saturday.* Junior Exhibition.

May 14–19, *Monday* to *Saturday.* Examination of Senior Class.

May 30, *Wednesday.* Decoration Day. No College exercises.

June 8–14,	*Friday* to *Thursday*. Semi-Annual Examinations of College Classes.
June 15,	*Friday*. Class Day.
June 17,	*Sunday*. Baccalaureate Sermon.
June 18,	*Monday*. Sophomore Prize Declamation.
June 19,	*Tuesday*. Annual Meeting of the Phi Beta Kappa Society, 9.30 A. M.
June 19,	*Tuesday*. Annual Alumni Meeting in Manning Hall, at 4 P. M.
June 20,	*Wednesday*. **One hundred and fifteenth annual Commencement**, (third Wednesday in June).
June 21,	*Thursday*. Meeting of the Corporation.
June 21, 22, 23,	*Thursday*, *Friday*, *Saturday*. Examination for admission to College. Candidates assemble at No. 12 University Hall, at 8 o'clock, A. M. They must be in attendance all three days.
	Summer Vacation.
September 5,	*Wednesday*. Annual Meeting of the Corporation in Manning Hall (on the first Wednesday in September).
September 18,	*Tuesday*. Examination of Delinquents in College Studies.
September 17, 18,	*Monday*, *Tuesday*. Examinations for admission.
September 19,	*Wednesday*. **Academic Year Begins.**

CORPORATION.

BOARD OF FELLOWS.

Rev. EZEKIEL G. ROBINSON, D.D., LL.D.,

PRESIDENT.

ALEXANDER DUNCAN, A.M.
Rev. ALVA WOODS, D.D.
Rev. SAMUEL L. CALDWELL, D.D.
Rev. EDWARDS A. PARK, D.D.
Hon. CHARLES S. BRADLEY, LL.D.
HORATIO N. SLATER, A.M.
WILLIAM GAMMELL, LL.D.
Rev. ALVAH HOVEY, D.D., LL.D.
Hon. ROWLAND G. HAZARD, LL.D.
MERRICK LYON, LL.D.
Rev. HEMAN LINCOLN, D.D.

BOARD OF TRUSTEES.

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CHANCELLOR.

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Hon. GEORGE HOWLAND, A. M.
Hon. CHARLES THURBER, A. M.
Rev. JOHN C. STOCKBRIDGE, D. D.
MARSHALL WOODS, A. M.
WILLIAM GODDARD, A. M.
Rev. THATCHER THAYER, D. D.
Rev. ABRAHAM H. GRANGER, D. D.
JEFFERSON BORDEN, Esq.
Hon. J. WARREN MERRILL, A. M.
Hon. WILLIAM SPRAGUE, A. M.
JOHN G. WHITTIER, A. M.
Rt. Rev. M. A. DeWOLFE HOWE, D. D.
JOSEPH C. HARTSHORN, A. M.
Hon. FRANCIS WAYLAND, LL. D.
WILLIAM W. KEEN, M. D.
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Rev. JAMES B. SIMMONS, D. D.

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Rev. WILLIAM H. EATON, D. D.
ALBERT K. SMILEY, A. M.
Hon. ROWLAND HAZARD, A. M.
EDWIN M. SNOW, M. D.
ARNOLD B. CHACE, A. M.
HORATIO N. SLATER, Jr., A. M.
Hon. ELIJAH B. STODDARD, A. M.
Rev. DANIEL LEACH, D. D.
Rev. C. EDWIN BARROWS, D. D.
RICHARD M. ATWATER, A. M.
Hon. WILLIAM F. SAYLES.
Hon. CHARLES L. COLBY, B. P.
Rev. S. DRYDEN PHELPS, D. D.
Rev. EDWARD JUDSON, D. D.
Hon. JOSEPH H. WALKER.
Hon. SAMUEL L. CROCKER, A. M.

Rev. SAMUEL L. CALDWELL, D. D.,

SECRETARY OF THE CORPORATION.

ARNOLD B. CHACE, A. M.,

TREASURER.

ADVISORY COMMITTEE OF THE ALUMNI.

ALEXANDER FARNUM, A. M.
FRANCIS W. BIRD, A. M.
SAMUEL S. GREENE, LL. D.
ALBERT HARKNESS, PH. D., LL. D.
CHARLES B. GOFF, A. M.
EDWARD T. CASWELL, M. D.
FRANCIS A. GASKILL, A. B.

MEMBERS OF THE FACULTY,

AND

OTHER OFFICERS.

Rev. EZEKIEL GILMAN ROBINSON, D. D., LL. D.,

President,

Professor of Moral and Intellectual Philosophy.

JOHN LARKIN LINCOLN, LL. D.,

Professor of the Latin Language and Literature.

SAMUEL STILLMAN GREENE, LL. D.,

Professor of Mathematics and Astronomy.

ALBERT HARKNESS, Ph. D., LL. D.,

Professor of the Greek Language and Literature.

BENJAMIN FRANKLIN CLARKE, A. M.,

Professor of Mathematics and Civil Engineering.

JOHN HOWARD APPLETON, A. M.,

Newport-Rogers Professor of Chemistry.

TIMOTHY WHITING BANCROFT, A. M.,

Professor of Rhetoric and English Literature.

ELI WHITNEY BLAKE, Jr., A. M.,

Hazard Professor of Physics.

* *Elton Professor of Natural Theology.*

JOHN WHIPPLE POTTER JENKS, A. M.,

Professor of Agricultural Zoology, and Curator of the Museum.

* At present, instruction in Natural Theology is given by the President of the University.

ALONZO WILLIAMS, A. M.,

Professor of Modern Languages.

WILLIAM CAREY POLAND, A. M.,

Assistant Professor of Latin and Greek.

ALPHEUS SPRING PACKARD, Jr., M. D., Ph. D.,

Professor of Zoology and Geology.

NATHANIEL FRENCH DAVIS, A. M.,

Assistant Professor of Mathematics.

WILLIAM WHITMAN BAILEY, B. P.,

Professor of Natural History, (Botany,) and Curator of the Herbaria.

WILLIAM CHANNING RUSSEL, LL. D.,

Acting Professor of History and Political Economy.

Rev. ELISHA BENJAMIN ANDREWS, A. M.,

Professor of History and Political Economy.

HOWARD MALCOM TICKNOR, A. M.,

Instructor in Elocution.

CHARLES VALUE CHAPIN, M. D.,

Instructor in Physiology.

FREDERIC ALEXANDER HILL,

Assistant Instructor in Analytical Chemistry.

REUBEN ALDRIDGE GUILD, LL. D.,

Librarian.

JOHN MILTON BURNHAM, A. M.,

Assistant Librarian.

FRANCIS WAYLAND DOUGLAS, A. M.,

Registrar.

UNDERGRADUATES.

SENIOR CLASS.

NAME.	RESIDENCE.	ROOM.
John Aldrich,	*Westerly*,	University, 20.
Edwin Pierce Allen,	*Providence*,	Slater, 18.
Alfred Williams Anthony,	*Providence*,	Slater, 13.
Arthur Eaton Baker,	*Winchester, Mass.*,	University, 50.
Sharonton Hale Baker,	*Dover, N. H.*,	University, 56.
Abram Barker,	*Fall River, Mass.*,	Slater, 7.
Ira Barrows,	*North Attleboro, Mass.*,	Slater, 14.
Nathaniel Brown Blaisdell,	*Providence*,	255 Potter's Av.
Herbert Anthony Bowen,	*Providence*,	65 Orms St.
James Albert Brown,	*Brooklyn, Conn.*,	University, 54.
Frank Eli Brooks,	*Sturbridge, Mass.*,	Hope, 17.
Isaac Bronson Burgess,	*Hampton Falls, N. H.*,	Hope, 47.
Jonathan Irvin Chaffee,	*E. Providence Centre*,	E. Providence Centre.
Wilson Gardner Crosby,	*Edgartown, Mass.*,	104 John St.
James Henry Davenport,	*Fall River, Mass.*,	Hope, 38.
Lewis Dexter, Jr.,	*Nayatt*,	Slater, 13.
Elias Fasset Dunlevy,	*Chicago, Ill.*,	Slater, 4.
Elisha Dyer, 3d,	*Providence*,	Hope, 34.
Joel Nelson Eno,	*Willington, Conn.*,	Hope, 20.
Alfred William Fitz,	*Chelsea, Mass.*,	Slater, 5.
Clarence Gardner,	*Pella, Iowa*,	Hope, 12.
Moses Clement Gile,	*East Haverhill, Mass.*,	University, 40.
Henry Stedman Graves,	*Haverhill, Mass.*,	Hope, 7.
John Stimson Greene,	*Providence*,	37 So. Angell St.
Ray Woodville Greene,	*Westerly*,	Hope, 47.
Samuel Stuart Greene,	*Providence*,	37 So. Angell St.

NAME.	RESIDENCE.	ROOM.
James Eugene Hamilton,	*Uxbridge, Ont.*,	University, 37.
Clifford Angell Harrington,	*Providence*,	12 Sycamore St.
Nicholas Hatheway, Jr.,	*Fall River, Mass.*,	Hope, 41.
Joseph Melzar Hobbs,	*Boston, Mass.*,	Hope, 30.
Simeon Ryarson Leach,	*Jamaica Plain, Mass.*,	439 Benefit St.
Alexander Duncan Leete,	*Providence*,	100 Broadway.
Charles Melvin Leonard,	*Middleboro, Mass.*,	Slater, 15.
Isa Henry Leveen,	*Portsmouth, N. H.*,	University, 33.
Emory Stevens Lyon,	*Providence*,	33 Pitman St.
Charles Bateman Luther,	*Fall River, Mass.*,	Slater, 11.
Henry Parker Manning,	*Raynham, Mass.*,	University, 52.
Arthur May Mowry,	*Providence*,	Slater, 18.
Lucius Pond Ordway,	*Providence*,	Slater, 3.
Howard Willis Preston,	*Providence*,	Slater, 13.
Michael Joseph Quigley,	*Valley Falls*,	Valley Falls.
Charles Munroe Sheldon,	*Yankton, Dak.*,	University, 40.
Frank Lucius Shepardson,	*Rehoboth, Mass.*,	Hope, 46.
Francis Wayland Shepardson,	*Granville, O.*	Slater, 4.
Richard Otis Sherwood,	*Middletown*,	Hope, 20.
William Edward Simonds,	*Providence*,	91 Sheldon St.
Edgar Oscar Silver,	*Derby Centre, Vt.*,	Hope, 22.
Sylvester Miller Snow,	*Providence*, Cor. Waterman and Gano Sts.	
Edward Casper Stokes,	*Millville, N. J.*,	Hope, 10.
Martin Walter Twing,	*Monterey, Mass.*,	University, 52.
Frederic Ellsworth Whittemore,	*Ashland, Mass.*,	24 Wood St.
Clarence Otis Williams,	*Providence*,	Gilmore St.
William Frederic Williams,	*Bristol*,	Hope, 7.

Select Course.

Clarence Edward Wilson,	*East Providence*,	Hope, 23.

JUNIOR CLASS.

NAME.	RESIDENCE.	ROOM.
Frank Howard Andrews,	*Providence*,	582 Broad St.
William Birket Arnold,	*Centreville*,	Slater, 2.
Albert Allison Baker,	*Providence*,	104 Carpenter St.
Charles Lewis Baker,	*Fall River, Mass.*,	Slater, 10.
George Henry Bottum,	*Shaftsbury, Vt.*,	Hope, 28.
William Manuel Peres Bowen,	*Providence*,	73 Ring St.
Richmond Brewer,	*Providence*,	55 Waterman St.
Frank Melville Bronson,	*Andover, Mass.*,	University, 48.
Hermon Carey Bumpus,	*Dorchester, Mass.*,	Slater, 8.
Everett Doughty Burr,	*New York, N. Y.*,	Slater, 9.
George Arnold Carpenter,	*Ashton*,	Ashton.
William Jacob Cloues,	*Charlestown, Mass.*,	Hope, 14.
Alfred Dodge Cole,	*Beverly, Mass.*,	Slater, 19.
John Daboll,	*Providence*,	112 Daboll St.
John George Doron,	*Mt. Holly, N. J.*,	Slater, 17.
Everett Brownell Durfee,	*Fall River, Mass.*,	Slater, 2.
Claude Joseph Farnsworth,	*Pawtucket*,	Pawtucket.
Robert Henry Ferguson,	*Boston, Mass.*,	University, 35.
Arthur Younger Ford,	*Owensboro', Ky.*,	University, 53.
Arthur Amory Gammell,	*Providence*,	Hope, 34.
George Ellery Gardner,	*Wickford*,	University, 30.
Henry Brayton Gardner,	*Providence*,	260 Waterman St.
George Coleman Gow,	*Brattleboro', Vt.*,	Hope, 25.
Charles William Greene,	*Providence*,	38 Cooke St.
Robert Warren Greene,	*Providence*,	20 Hawthorne St.
Harry Hathaway Hammond,	*Providence*,	29 Angell St.
Edwin Bates Harvey,	*Providence*,	229 Fountain St.
Ira Charles Hersey,	*Foxboro', Mass.*,	306 Pine St.
Leonidas Raymond Higgins,	*Flemington, N. J.*,	Hope, 44.

NAME.	RESIDENCE.	ROOM.
Henry Russell Hitchcock,	*Foxboro', Mass.*,	Hope, 48.
Willie Clarence Ingalls,	*Putney, Vt.*,	Hope, 29.
James Lawrence Jenks,	*Pawtucket*,	Pawtucket.
Edwin Lehman Johnson,	*Memphis, Tenn.*,	Hope, 40.
James Wager Johnson,	*New York, N. Y.*,	14 George St.
Joseph Harris Johnson,	*Providence*,	45 Mawney St.
Charles Gregory King, Jr.,	*Cleveland, O.*,	55 Waterman St.
Benjamin Willey Lightburn,	*Flatwoods, Penn.*,	Hope, 3.
George Albert Loomis,	*East Greenwich*,	University, 51.
Frederick Newton Luther,	*Providence*,	13 Dudley St.
Stephen Elmer Mann,	*Fall River, Mass.*,	Slater, 10.
Harold Metcalf,	*Providence*,	127 Smith St.
Winthrop Marshall Munro,	*Bristol*,	Hope, 23.
Andrew Newall,	*Westerly*,	University, 20.
George Hayward Nichols,	*Providence*,	Hope, 5.
Clement Dietrich O'Leary,	*Providence*,	381 Westminster.
Otis Everett Randall,	*Providence*,	cor. Beaufort & Carlton Sts.
Abbott Barnes Rice,	*Hopkinton, Mass.*,	Hope, 36.
Augustus Erving Scoville,	*Bridgeport, Conn.*,	Hope, 14.
Edward Whitten Shedd,	*Providence*,	80 So. Angell St.
Volney Skinner,	*Watertown, Mass.*,	Hope, 31.
Edward Presbury Smith,	*Vineyard Haven, Mass.*,	Hope, 16.
Frank Edwin Sweet,	*Pawtucket*,	55 Grove St.
Theodore Foster Tillinghast,	*Providence*,	108 Angell St.
Edward Pratt Tuller,	*Hartford, Conn.*,	Hope, 11.
George Alfred Tyzzer,	*Wakefield, Mass.*,	University, 44.
Charles Russell Upton,	*Lowell, Mass.*,	Hope, 45.
Josiah Howe Vose,	*Providence*,	Slater, 15.
George Melvin Wadsworth,	*Holliston, Mass.*,	University, 24.
George Bulkeley Wakeman,	*Moodus, Conn.*,	Hope, 44.
Thomas Weston Wood, Jr.,	*Newport*,	29 Benevolent St.

SOPHOMORE CLASS.

NAME.	RESIDENCE.	ROOM.
Harlan Page Abbott,	*Antrim, N. H.*,	Hope, 6.
Harry Olin Alexander,	*Bellows Falls, Vt.*,	14 George St.
Emerson Henry Alger,	*Providence*,	Hope, 22.
Edwin Thomas Banning,	*Newport*,	Hope, 26.
Arthur Channing Barrows,	*Providence*,	University, 51.
Lloyd Morton Blodgett,	*Pawtucket*,	11 George St.
Horace Eugene Brigham,	*Westboro', Mass.*,	Hope, 9.
Francis Hail Brown,	*Warwick*,	104 Eddy St.
John Nicholas Brown,	*Newport*,	Slater, 12.
William Chamberlain Burwell,	*Saxton's River, Vt.*,	Hope, 15.
Theron Harlow Carter,	*Charlemont, Mass.*,	Hope, 13.
Elmer Case,	*Collinsville, Conn.*,	University, 31.
Duncan Alexander Cattanach,	*Providence*,	Angell Place.
Ward Beecher Chase,	*Fayette, Me.*,	Hope, 16.
Prescott Holmes Coleman,	*Providence*,	136 S. Main St.
Frank Leslie Day,	*Keene, N. H.*,	Hope, 6.
Charles Owen Dexter,	*Nayatt*,	Slater, 9.
Norman Staunton Dike,	*Brooklyn, N. Y.*,	Slater, 3.
John Byron Diman,	*Providence*,	130 Angell St.
Charles Thomas Eaton,	*Needham, Mass.*,	Hope, 4.
Walter Goodnow Everett,	*South Hampton, N. H.*,	Hope, 13.
Amory Prescott Folwell,	*Waterbury, Conn.*,	Slater, 19.
Joseph Wood Freeman,	*Central Falls*,	Hope, 1.
Ferdinand Courtney French,	*Providence*,	Hope, 4.
Edgar Homer Grout,	*Hopkinton, Mass.*,	Hope, 36.
Charles Henry Hare,	*Suffield, Conn.*,	Hope, 40.
Walter Hayward,	*Providence*,	11 Linden St.
John Calder Hebden,	*Providence*,	Hope, 33.
Crawford Hill,	*Denver, Col.*,	Slater, 14.

NAME.	RESIDENCE.	ROOM.
Charles Chambers Hitchcock,	*Foxboro', Mass.*,	Hope, 48.
Clarence Littlefield,	*Block Island*,	197 Carpenter St.
Joseph Haley Lord,	*Wells, Me.*,	Hope, 24.
Edward Fairfield Lovejoy,	*Burrillville*,	Hope, 35.
George Stitzel Mathews,	*Temple, Penn.*,	71 Ocean St.
Frank Mauran, Jr.,	*Providence*,	326 Benefit St.
Charles Herbert McIntire,	*Lowell, Mass.*,	Slater, 6.
Francis Albert McLane,	*Providence*,	263 Washington St.
James Charles Monaghan,	*Providence*,	27 Florence St.
Frank Edwin Peckham,	*Providence*,	Hope, 37.
William Pratt,	*Pawtucket*,	Pawtucket.
Charles Franklin Reed,	*South Abington, Mass.*,	University, 58.
William Ashton Reed,	*South Abington, Mass.*,	University, 58.
Edgar Wilson Remington,	*Warwick*,	Hope, 2.
Henry Johns Rhett,	*Newport*,	Slater, 20.
Knight Cheney Richmond,	*Providence*,	Slater, 7.
Norman Leonard Richmond,	*Lakeville, Mass.*,	University, 31.
Clifford Phetteplace Seagrave,	*Providence*,	119 Benefit St.
William Henry Shedd,	*Providence*,	18 Thayer St.
Elmer Ellsworth Silver,	*Derby, Vt.*,	Hope, 24.
Henry Reuben Skinner,	*Watertown, Mass.*,	Hope, 31.
Carroll Walter Smith,	*Washington, D. C.*,	Hope, 4.
Charles Morris Smith, Jr.,	*Providence*,	114 Benevolent St.
Noah Beazelle Smith,	*Washington, D. C.*,	University, 34.
Lorenzo Burdette Smull,	*Port Washington, N. Y.*,	Pawtucket.
Howard Kemble Stokes,	*Millville, N. J.*,	Hope, 10.
Samuel Slater Stone,	*Foster*,	Hope, 35.
Arthur Preston Sumner,	*Providence*,	Trinity Square.
Orray Taft,	*Pawtuxet*,	Pawtuxet.
Walter Blake Taft,	*Providence*,	Hope, 2.
Frank Locke Titcomb,	*Providence*,	22 Nichols St.
Thomas Campbell Van Kirk,	*Jefferson, Penn.*,	University, 53.
Fred Alpha Very,	*Wellsville, N. Y.*,	Hope, 33.
Ashbel Tingley Wall,	*Providence*,	11 Chestnut St.
Andrew McCorrie Warren,	*Providence*,	134 Bridgham St.
Henry Knowles Wilbur,	*Andover, Mass.*,	University, 48.
Allen Herbert Willett,	*Suffield, Conn.*,	Hope, 40.
Horatio Gates Wood,	*Newport*,	Hope, 26.

Select Course.

NAME.	RESIDENCE.	ROOM.
Charles Edwin Bassett,	*Pawtucket*,	Slater, 3.
Francis Whittier Greene,	*River Point*,	Slater, 2.
Clinton Prescott Knight,	*Providence*,	157 Greenwich St.
James Monroe Pendleton, 2d,	*Westerly*,	Hope, 37.

FRESHMAN CLASS.

NAME.	RESIDENCE.	ROOM.
Howard Almy,	*Providence*,	75 Angell St.
William Henry Beattie,	*Fall River, Mass.*,	Slater, 12.
William Henry Bennett,	*Fitchburg, Mass.*,	University, 19.
Charles Wesley Boardman,	*Pawtucket*,	68 High St.
Calvin Huntington Bottum,	*Shaftsbury, Vt.*,	Hope, 28.
Charles Albert Briggs,	*Brockton, Mass.*,	Hope, 5.
Stephen Swift Brooks,	*Arlington*,	Arlington.
Alexander Brough, Jr.,	*Providence*,	53 Vernon St.
Harold Brown,	*Newport*,	357 Benefit St.
Dana Ripley Bullen,	*Pawtucket*,	Hope, 18.
Edward Clifton Burnham,	*Pawtucket*,	Hope, 18.
Clarence Everett Bury,	*Fall River, Mass.*,	Hope, 39.
William Eugene Carter,	*Essex, N. Y.*,	Hope, 43.
David Henry Chandler,	*Vail's Gate, N. Y.*,	5 Humboldt Ave.
Thomas Sessions Cole,	*Seekonk, Mass.*,	Seekonk.
Asa Clinton Crowell,	*Cumberland Mills*,	Cumberland Mills.
Amos Lockwood Danielson,	*Providence*,	64 Angell St.
Frederic William Davis,	*Central Falls*,	168 Central St.
Olin Sylvester Davis,	*Lake Village, N. H.*,	34 Daboll St.
Edmund Burke Delabarre,	*Blackstone, Mass.*,	29 Benevolent St.
Leonard Lorenzo Dick,	*Limerick, Me.*,	154 So. Main St.
Frank Ormond Draper,	*Pawtucket*,	Pawtucket.
William Allan Dyer,	*Fall River, Mass.*,	Slater, 12.
Henry Lexington Everett,	*Worcester, Mass.*,	University, 19.
George Wilton Field,	*Brockton, Mass.*,	Hope, 5.
William Burnside Frackelton,	*Providence*,	49 Althea St.
Otis Allen Freeman,	*Worcester, Mass.*,	University, 22.
Henry Frink,	*Preston City, Conn.*,	University, 49.

NAME.	RESIDENCE.	ROOM.
Ellis Freedom Frost,	*Pawtucket,*	Pawtucket.
William Henry Frost,	*Providence,*	124 Smith St.
Daniel Hunt Fuller,	*Providence,*	48 Transit St.
Edward Aivah Godding,	*Providence,*	Hope, 43.
George Grime,	*Fall River, Mass.,*	Hope, 19.
Norman Gunderson,	*Providence,*	35 Pitman St.
Edward Leroy Gunn,	*Fort Scott, Ks.,*	University, 37.
Samuel Willis Hamblen,	*Holden, Mass.,*	University, 22.
Stephen Cushing Harris,	*Providence,*	90 Angell St.
Herbert Wade Hibbard,	*Middlebury, Vt.,*	Hope, 15.
Almon Ward Hill,	*Lowell, Mass.,*	Slater, 6.
Arthur Heman Hosford,	*Lowell, Mass.,*	Slater, 6.
Norman Morrison Isham,	*Providence,*	Hope, 27.
George Arthur Jepherson,	*Providence,*	Hope, 9.
Arthur Pliny Johnson,	*East Greenwich,*	E. Greenwich.
Solon Chester Kelley,	*Pawtucket,*	53 Waterman St.
William Albert Lane,	*Philadelphia, Pa.,*	Hope, 21.
Charles Engs Lawton,	*Newport,*	Hope, 8.
Clarence Hartwell Manchester,	*Providence,*	Hope, 27.
Charles John McCreery,	*Fall River, Mass.,*	Hope, 39.
Frank Lincoln Morse,	*East Providence,*	E. Prov. Centre.
William Prescott Mudge,	*Providence,*	9 Pacific St.
James Francis Murphy,	*Central Falls,*	Central Falls.
William Thomas Nicholson, Jr.,	*Providence,*	Hope, 1.
John Edward Nicolai,	*Newport,*	261 Benefit St.
William Henry O'Neil,	*Providence,*	77 Putnam St.
James Monroe Paine,	*E. Killingly, Conn.,*	Hope, 27.
Wilbur Brown Parshley,	*Live Oak, Fla.,*	Hope, 29.
Arthur Stevens Phelps,	*Hartford, Conn.,*	Hope, 11.
Albert Knight Potter, Jr.,	*Springfield, Mass.,*	Hope, 25.
Ralph Goddard Potter,	*Nayatt Point,*	Slater, 12.
Charles Henry Putnam,	*Deposit, N. Y.,*	Slater, 17.
Fred Edward Read,	*Pawtucket,*	Pawtucket.
Charlton Albanis Reed,	*Flemington, N. J.,*	Hope, 42.
Thomas George Rees,	*Providence,*	35 Abbott St.
Philip Joseph Reid,	*Providence,*	154 Charles St.
Francis Wayland Reynolds,	*Mt. Pleasant, Penn.,*	Hope, 3.
William Job Reynolds, Jr.,	*Providence,*	Hope, 45.

NAME.	RESIDENCE.	ROOM.
Clarence Verdine Roberts,	*Montpelier, Vt.*,	University, 44.
Arthur Rogers,	*Providence*,	177 Hope St.
Joseph Somers Russel,	*Bordentown, N. J.*,	Hope, 42.
Amos Lockwood Sarle,	*Warwick*,	University, 23.
Oliver Perry Sarle, Jr.,	*Warwick*,	University, 23.
Louis Shiel,	*Philadelphia, Penn.*,	Hope, 46.
Frederic Tenney,	*Providence*,	44 Hudson St.
Edwin Stanley Thompson,	*Providence*,	13 Carpenter St.
Edmund Gorham Thurber,	*Providence*,	Slater, 16.
Frank E. Tingley,	*Pawtucket*,	Hope, 27.
Arthur Leonard Wadsworth,	*Holliston, Mass.*,	University, 24.
Joseph Hooker Ward,	*Middletown*,	Slater, 20.
Stephen Waterman,	*Providence*,	72 Meeting St.
Daniel Webster, Jr.,	*Providence*,	81 Mawney St.
Frank Denison White,	*Rutland, Vt.*,	Slater, 15.
William Shaw White,	*Pawtucket*,	Pawtucket.
George Grafton Wilson,	*Providence*,	60 Chapin Ave.

Select Course.

William Dart Sheldon,	*Providence*,	128 Washington St.
Isaac Frazee Williams, Jr.,	*Bristol*,	Hope, 7.

SUMMARY.

Seniors	54
Juniors	60
Sophomores	71
Freshmen	85
Total	270

TIME AND CONDITIONS OF ADMISSION.

The regular examination for admission to the Freshman Class will take place on Thursday, Friday, and Saturday of Commencement week, June 21, 22, 23, 1883, beginning at 8 o'clock, A. M., on Thursday. The candidates will assemble in No. 12, University Hall; and *they must be in attendance during the three days.*

There will be a second examination on Monday, Sept. 17, 1883, beginning at 9 o'clock, A. M., and on Tuesday, Sept. 18, 1883, at 8 o'clock, A. M. Applicants must be in attendance both days.

For admission to Advanced Standing, candidates must pass a general examination in the studies already pursued by the class which they propose to enter.

No student can be admitted as a candidate for matriculation, unless he brings suitable testimonials of good moral character; and if he comes from another college or an academy, he must also present a certificate of good standing in the institution which he has left, and of regular dismission from it.

For the Course for the Degree of Bachelor of Arts.

Candidates for admission to the Freshman Class are examined in the following subjects; but real equivalents will be received for any of the Latin or Greek works mentioned:

I. Greek. 1. Greek Grammar (Hadley's is preferred). 2. The Syntax and Greek Selections in Harkness's "First Greek Book," or an equivalent from any other Greek Reader. 3. The whole of Xenophon's Anabasis, or *five* books of the Anabasis and *two* books of Homer; the Odyssey is preferred. 4. The first *twenty* exercises of Arnold's Greek Prose Composition, or the first *twenty-five* exercises of Jones's Greek Prose Composition. 5. In the general history of Greece to the death of Alexander.

Note.—In place of the examination in five books of the Anabasis and two of the Iliad, candidates may, at their option, substitute an examination in translating at sight passages of ordinary difficulty from the works of Xenophon and from the Iliad. Candidates thus examined will be supplied with a vocabulary of the less usual words.

II. Latin. Candidates will be examined in 1883, on either of the following courses, at their option:

First Course.

1. Latin Grammar (Harkness's Grammar is preferred). 2. Caesar, *Gallic War*, books I.–V., or *three* books of Caesar and the *Catiline* of Sallust. 3. The *first six* books of Vergil's Aeneid, and thirty-five hundred lines of Ovid; as an equivalent for Ovid, either the *last six* books of the Aeneid, or the Bucolics and Georgics. 4. Seven Orations of Cicero, including the Manilian law. 5. Parts I. and II. of Harkness's Latin Composition.

Second Course.

1. Caesar, *Gallic War*, books I.–IV., or books I.–III., and Sallust's *Catiline*, with questions on the subject-matter and on grammar; Cicero, Orations *against Catiline*, and *for Archias*, with questions, as on Caesar; Vergil, *Aeneid*, books I.–VI., or *Aeneid*, books I.–V., and the *Eclogues*, with questions on the subject-matter and on prosody. 2. Translation, at sight, of average passages from Caesar, Cicero's *Orations*, Vergil's *Aeneid*, and Ovid's *Metamorphoses*, with questions on grammar, prosody, history, and antiquities, suggested by the passages assigned. 3. Translation into Latin of simple English sentences, and also of a continuous passage of English narrative, prepared from some portion of the prescribed prose. 4. Outlines of Roman Geography; and of Roman History to the end of the reign of Marcus Aurelius. It is recommended that pupils be accustomed, from the beginning of their preparatory course, to translate into Latin, both orally and in writing, passages prepared by the teachers on the basis of the prose authors read.

III. Mathematics. 1. Arithmetic, including the Metric system of weights and measures. 2. Algebra, through Equations of the Second Degree, including Arithmetical and Geometrical Progression, and the use of the Binomial Formula. 3. Plane Geometry.

IV. English Composition. Candidates will be required to write a brief composition upon a subject assigned at the time of examination. These compositions must be correct in spelling, punctuation, grammar, division into paragraphs, and expression.

In 1883 subjects will be drawn from one of the following works:

Shakespeare's Julius Caesar; The Sir Roger de Coverley Papers of Addison; Macaulay's Essay on Addison; Scott's Marmion; Thackeray's Henry Esmond.

Candidates are expected to be familiar with all the above works.

Specimens of incorrect English will also be assigned for correction.

For 1884, the list will be as follows: Shakespeare's Julius Caesar, and Merchant of Venice; Thackeray's Henry Esmond; Burns's Cotter's Saturday Night; Carlyle's Essay on Burns; Scott's Lady of the Lake; Irving's Sketch-Book.

For 1885: Shakespeare's Macbeth and Merchant of Venice; Irving's Sketch Book; George Eliot's Silas Marner; Dickens's Tale of Two Cities.

For 1886: Shakespeare's Julius Caesar and Macbeth; Dickens's Tale of Two Cities; Scott's Abbot; Pope's Rape of the Lock; Lowell's Vision of Sir Launfal.

V. French. Otto's French Grammar, Part I., including *the Reading Lessons.* (An additional examination is offered to candidates desiring to enter the advanced Division of the Freshman class in French.)

In all these branches, candidates will be examined both orally and by writing.

Preliminary Examinations.

In certain of the Preparatory studies, candidates may be examined one year before the time at which they intend to apply for admission to the Freshman Class. This examination will be held in June only. The subjects for this earlier examination will be the following:

(1.) Greek Grammar.

(2.) The Syntax and Greek selections in Harkness's "First Greek Book," or an equivalent from any other Greek Reader.

(3.) Three books of Xenophon's Anabasis.

(4.) Latin Grammar.

(5.) Five books of Caesar, and either thirty-five hundred lines of Ovid or seven orations of Cicero; or Caesar and six books of the Aeneid.

(6.) Arithmetic, including the Metric system of weights and measures.

For the Courses for the Degree of Bachelor of Philosophy.

There are two parallel courses of instruction of Candidates for the degree of Bachelor of Philosophy, each course extending through a period of four years. One of these courses includes classical studies; the other omits them, and substitutes a larger amount of scientific studies.

Candidates for admission to a course including *Greek* are examined in all the Greek subjects specified on page 24. They are also examined in all the subjects in the list below.

Candidates for admission to a course including *Latin* are examined in the Latin subjects specified on pages 24–25. They are also examined in all the subjects (except the Latin) in the list below.

Candidates for admission to the course *omitting* classical studies are examined in all the following subjects:

I. Latin.

Five books of Caesar, or its equivalent in Cicero or in Vergil.

II. Mathematics.

1. Arithmetic, including the Metric system of weights and measures. 2. Algebra, through Equations of the Second Degree, including Arithmetical and Geometrical Progression, and the use of the Binomial Formula. 3. Plane Geometry.

III. English.

Candidates will be required to write a brief composition upon a subject assigned at the time of examination. These compositions must be correct in spelling, punctuation, grammar, division into paragraphs, and expression.

In 1883, subjects will be drawn from one of the following works:

Shakespeare's Julius Caesar; The Sir Roger de Coverley Papers of Addison; Macaulay's Essay on Addison; Scott's Marmion; Thackeray's Henry Esmond.

Candidates are expected to be familiar with all the above works.

Specimens of incorrect English will also be assigned for correction.

For subjects for 1884, 1885, and 1886, see page 26.

IV. French.

Otto's French Grammar, Part I., including *the Reading Lessons.* (An additional examination is offered to candidates desiring to enter the advanced Division of the Freshman class in French.)

In all these branches, candidates will be examined both orally and by writing.

SELECT COURSES.

Students who wish to pursue a Select Course, without entering as candidates for a degree, must be examined in such subjects as are preliminary to the studies that they desire to pursue in College.

COURSES OF INSTRUCTION.

FIRST: FOR THE DEGREE OF BACHELOR OF ARTS.

FRESHMAN CLASS.

First Half-Year.

1. *Greek.* (*a*) Felton's Greek Historians.—(*b*) Arnold's Greek Prose Composition.—(*c*) Smith's History of Greece. *Four hours a week.*
2. *Latin.* (*a*) Livy (Lincoln's Selections), Books I., II., XXI.—(*b*) Harkness's Latin Composition, Part III.—(*c*) History of Rome. *Five hours a week.*
3. *Mathematics.* Algebra, from Quadratic Equations. *Five hours a week.*
4. *French.* (*a*) First Division. (1) The *Athalie* of Racine will be read in the class. (2) Examinations will be held upon the *Esther*, *Iphigénie*, and *Phédre* of Racine. (*b*) Second Division. (1) Three books of the *Télémaque* of Fénelon will be read in the class. (2) Examinations will be held upon three additional books of *Télémaque*. (*c*) Voluntary divisions will be arranged with all who desire to read more of these two authors. *Two hours a week.*
5. *Hygiene.* A course of Lectures.

Second Half-Year.

1. *Greek.* (*a*) Homer's Iliad.—(*b*) Arnold's Greek Prose Composition completed. *Five hours a week.*
2. *Latin.* (*a*) Cicero de Senectute.—(*b*) De Amicitia.—(*c*) Selections from Cicero's Epistles. (*d*) Exercises in Latin Composition. *Four hours a week.*

3. *Mathematics.* (*a*) Olney's Geometry.—(*b*) Olney's Advanced Course in Geometry, Solid and Spherical.—(*c*) Plane and Spherical Trigonometry. *Five hours a week.*
4. *French.* (*a*) First Division. (1) The *Horace* of Corneille will be read in the class. (2) Examinations will be held upon the *Cid*, *Cinna*, and *Polyeucte* of Corneille. (*b*) Second Division. (1) *Horace* will be read in the class. (2) Examination will be held upon the *Cid*. (*c*) Voluntary divisions will be arranged with all who desire to read more of this author. *Two hours a week.*

SOPHOMORE CLASS.

First Half-Year.

1. *Greek.* Demosthenes. — Public Orations. *Three hours a week.*
2. *Latin.* (*a*) Horace (Lincoln's Edition).—(b) Exercises in Latin Composition. *Two hours a week.*
3. *Mathematics.* (*a*) Olney's General Geometry and Calculus.—(*b*) Lectures on Spherical Astronomy. *Five hours a week.*
4. *French.* (*a*) The *Précieuses Ridicules* and *Femmes Savantes* of Molière; *L'Été de la Saint Martin* of Meilhac; *La Cagnotte* of Labiche; *Zaïre* of Voltaire and *Art Poétique* of Boileau will be read in the class. (*b*) Examinations will be held upon the *Bourgeois Gentilhomme*, *Fourberies de Scapin* and *Misanthrope* of Molière; the *Mérope* of Voltaire; *La Joie Fait Peur* of Girardin; and *Histoire de la Littérature Française* by Marcillac. (*c*) A voluntary division will be arranged with all who desire to read more extensively. (*d*) Lectures on the Language and Literature. *Three hours a week.*
5. *Rhetoric.* (*a*) Lectures on English Composition. Text-Book. A. S. Hill's Principles of Rhetoric. *Two hours a week.* (*b*) Essays. Principal Books of Reference: Campbell's Phil-

osophy of Rhetoric, Whately's Elements of Rhetoric, Kames's Elements of Criticism, and D. J. Hill's Science of Rhetoric.

6. *Elocution.* Lectures and Exercises. *Once a week.* Principal Works of Reference: Rush On the Voice; Murdoch and Russell's Vocal Culture; The Speaking Voice, Hullah; Throat and Voice, Cohen.

Second Half-Year.

1. *Greek.* (*a*) Sophocles.—(*b*) Lectures. *Two hours a week.*
2. *Latin.* (*a*) Tacitus.—(*b*) Exercises in Latin Composition. *Three hours a week.*
3. *Mechanics.* (*a*) Peck's Mechanics. *Five hours a week.*
4. *Rhetoric.* (*a*) Lectures in English Composition. Text-Book, Hill's Principles of Rhetoric. *Two hours a week.* (*b*) Essays.
5. *Elocution.* Lectures and Exercises, with Declamations. *One hour a week.* For reference, Bacon's Manual of Gesture. Also one of the following elective studies:
6. *German.* (*a*) Whitney's Grammar. (*b*) Exercises in Composition. (*c*) Joynes's Reader. *Three hours a week.*
7. *French.* (*a*) Modern Pieces. (*b*) Lectures. *Three hours a week.*

JUNIOR CLASS.

First Half-Year.

Rhetoric. (*a*) Lectures on the English Language. Manual of English Literature, with Readings from authors. *Three hours a week.* (*b*) Essays and Orations, *Saturdays.* Principal authors referred to: (1) In Language, Marsh, Müller, Whitney, and Sayce. (2) In Literature, Taine, Arnold, Morley, and Shaw.

Elocution. Private Rehearsals of Orations.

3. *Astronomy.* Loomis' Astronomy, with Lectures. *Three hours a week.*
4. *Chemistry.* Lectures. The lectures are illustrated by experiments, and colored charts, and black-board exercises. Books of reference: Fownes's Chemistry, Roscoe and Schorlemmer's Chemistry, Cooke's Chemical Philosophy. *Three hours a week.*
5. *Physics.* (*a*) Lectures, illustrated by experiments, also (*b*) Recitations, both in writing and oral. Books of reference: Atkinson's Ganot, Deschanel's Natural Philosophy, Silliman's Physics. *Five hours a week.*

One of the following elective courses:

6. *German.* (*a*) Advanced Grammar. (*b*) Exercises in Composition. (*c*) *Der Zerbrochene Krug* of Zschokke and the *Doctor Wespe* of Benedix will be read in the class. (*d*) Examinations will be held upon the *Eigensinn* of Benedix, and *Einer Muss Heirathen* of Wilhelmi. (*e*) A voluntary division will be arranged with all who desire additional reading. *Two hours a week.*
7. *Latin.* (*a*) Horace's Ars Poetica. — (*b*) Selections from the Epistles. *Two hours a week.*
8. *Greek. Two hours a week.*
9. *Civil Engineering. Two hours a week.*
10. *Botany. Two hours a week.*

Second Half-Year.

1. *Logic.* Text-Book, Jevons's Logic. Principal authors referred to in Logic: Sir W. Hamilton, De Morgan, Thomas, Mill, Mansel, Bowen, and Fowler. *Three hours a week.*
2. *Physiology.* Lectures. Books of reference: in Anatomy, Quain and Gray; in Physiology, Dalton, Marshall, and Foster; in Hygiene, Buck. *Five hours a week.*
3. *Rhetoric.* (*a*) Manual of English Literature; study of

authors. *Two hours a week.* (*b*) Essays and Orations, *Saturdays.*

4. *Elocution.* Private rehearsals of Orations.

A sufficient number of the following elective courses to make up *six hours a week.*

5. *Latin.* Juvenal, Terence, Latin Composition, Lectures. *Two hours a week.*
6. *Greek.* Plato. *Two hours a week.*
7. *German.* (*a*) Schiller's *Jungfrau von Orleans.* (*b*) A voluntary division will be arranged with all who desire to read more of this author. *Two hours a week.*
8. *Zoology.* (*a*) Lectures. *Two hours a week.* (*b*) Laboratory work. *Two hours a week.* Books of reference, Packard's Zoology. Huxley's Anatomy of the Invertebrates, Huxley's Anatomy of the Vertebrates, Gegenbaur's Elements of Comparative Anatomy. Packard's Outlines of Comparative Embryology.
9. *Political Economy.* Lectures. *Two hours a week.* Mill's Political Economy, Fawcett's Manual, Perry's Political Economy, Walker's Science of Wealth.
10. *Analytical Chemistry.* Laboratory practice. *Six hours a week.*
11. *Physics.* Laboratory work. *Four hours a week.*
12. *Advanced Mechanics. Two hours a week.*
13. *Botany.* (*a*) Lectures and field excursions. *Two hours a week.* (*b*) Laboratory work. *Two hours a week.*
14. *Civil Engineering. Two hours a week.*

SENIOR CLASS.

First Half-Year.

1. *Intellectual Philosophy.* (*a*) Lectures.—(*b*) Essays by the class. Sir William Hamilton's Lectures on Metaphysics, Kant's Critique of Pure Reason (Translations of Meikle-

john and Müller and expositions of Mahaffy, Caird, Stirling, and Morris), Wayland's Intellectual Philosophy, Porter's Human Intellect. *Five hours a week.*

2 *History.* Mediaeval History, from the fall of the Western Empire to the Reformation —(*a*) by lectures —(*b*) by abstracts presented by the class. Guizot's European Civilization, Duruy's *Histoire du Moyen Age*, Gibbon's Roman Empire, Hallam's Middle Ages, Milman's Latin Christianity, Bryce's Holy Roman Empire, Kitchin's France, Stubbs's English Constitutional History. *Five hours a week.*

A sufficient number of the following elective courses to make up *six hours a week.*

3. *Roman Law* and *French. Two hours a week.*
4. *Latin.* Lucretius, with Lectures. *Two hours a week.*
5. *Greek.* Demosthenes, Oration on the Crown. *Two hours a week.*
6. *German.* (*a*) Goethe's *Iphigenie.* (*b*) Voluntary division if called for. *Two hours a week.*
7. *Analytical Chemistry.* Laboratory practice. *Six hours a week.*
8. *Botany. Two hours a week.*
9. *Civil Engineering. Two hours a week.*
10. *Geology.* (*a*) Lectures. *Two hours a week.* (*b*) Laboratory work. *Two hours a week.* Books of reference: Dana's New Text-Book of Geology; Dana's Manual of Geology. Le Conte's Elements of Geology. Nicholson's Ancient Life-History of the Earth.

Second Half-Year.

1. *Moral Philosophy.* (*a*) Lectures, with (*b*) essays by the class. Wayland's Moral Science, Alexander's Moral Science, Kant's Metaphysic of Ethics (Semple's and Abbott's

translations), Calderwood's Hand-Book of Moral Philosophy, with references to various authors. *Five hours a week.*

Natural Theology, and Evidences of Christianity, by Lectures.

2. *History.* (*a*) Modern History, from the Reformation to the French Revolution — (*b*) Colonial History.— (*c*) Constitutional History of the United States; by lectures and abstracts. Duruy's *Histoire des Temps Modernes*, Hallam's Constitutional History of England, Stephen's Lectures on the History of France, Woolsey's International Law, Farrar's Manual of the Constitution, The Federalist. *Five hours a week.*
3. *Agricultural Zoology.* (A required course for students on State Scholarships.) *One hour a week.*

A sufficient number of the following elective courses to make up *five hours a week*, for students on State Scholarships, and *six hours a week* for all others.

4. *Lectures on the History of Philosophy. One hour a week.*
5. *Latin. Two hours a week.*
6. *Greek. Two hours a week.*
7. *French. Two hours a week.*
8. *German.* Goethe's *Faust.* (*b*) Lectures. (*c*) Voluntary division if called for. *Two hours a week.*
9. *English Literature. Two hours a week.*
10. *Political Economy. Two hours a week.*
11. *Botany.* (*a*) Lectures. *Two hours a week.* (*b*) Laboratory work. *Two hours a week.*
12. *Civil Engineering. Two hours a week.*
13. *Geology*, (continued). Lectures; *with a short course on Archæology and Ethnology. One hour a week.*
14. *Analytical Chemistry.* Laboratory practice. *Six hours a week.*
15. *International Law.* Lectures. *One hour a week.*

SECOND: FOR THE DEGREE OF BACHELOR OF PHILOSOPHY.

The following are the outlines of the courses; but they may be subjected to such modifications as are hereafter found advisable:

Course including an Ancient Language.

FRESHMAN CLASS.

First Half-Year.

1. Greek or Latin, *four hours a week.*
2. Algebra, *five hours a week.*
3. French, *two hours a week.*
4. Plane problems, *three hours a week.*
5. Mechanical drawing, *two hours a week.*
6. Hygiene.

Second Half-Year.

1. Greek or Latin, *five hours a week.*
2. Geometry and Trigonometry, *five hours a week.*
3. French, *two hours a week.*
4. Descriptive Geometry, *three hours a week.*
5. Mechanical drawing, *two hours a week.*

SOPHOMORE CLASS.

First Half-Year.

1. Greek or Latin, *two or three hours a week.*
2. General Geometry and Calculus; Spherical Astronomy, *five hours a week.*
3. French, *three hours a week.*
4. Rhetoric; Essays, *two hours a week.*
5. Elocution, *one hour a week.*
6. Shades and Shadows, *three hours a week.*

Course not including an Ancient Language.

FRESHMAN CLASS.

First Half-Year.

1. Algebra, *five hours a week.*
2. French, *two hours a week.*
3. Biology and Physical Geography, *three hours a week.*
4. Plane problems, *three hours a week.*
5. Mechanical and Free-hand drawing, *three hours a week.*
6. Hygiene.

Second Half-Year.

1. Geometry and Plane and Spherical Trigonometry, *five hours a week.*
2. French, *two hours a week.*
3. English Language, *three hours a week.*
4. Descriptive Geometry, *three hours a week.*
5. Mechanical and Free-hand drawing, *three hours a week.*

SOPHOMORE CLASS.

First Half-Year.

1. Analytical Geometry and Calculus, *five hours a week.*
2. Rhetoric; Essays, *two hours a week.*
3. Elocution, *one hour a week.*
4. French, *three hours a week.*
5. Shades and Shadows, *three hours a week.*
6. Linear Perspective, *two hours a week.*

Second Half-Year.

The following required studies:

1. Greek or Latin, *three or two hours a week.*
2. Mechanics, *five hours a week.*
3. Rhetoric and Essays, *two hours a week.*
4. Elocution, *one hour a week.*
5. Either French, *three hours a week*, or German, *three hours a week.*
6. Either Surveying, *three hours a week*, or Applications of Calculus to General Geometry, *two hours a week.*

Course including an Ancient Language.

JUNIOR CLASS.

First Half-Year.

1. Rhetoric and English Literature, *three hours a week.*
2. Elocution.
3. Astronomy, *three hours a week.*
4. Chemistry, *three hours a week.*
5. Physics, *five hours a week.*

A sufficient number of the following elective courses to make up *two hours a week.*

German, *two hours a week.*
Latin, *two hours a week.*
Greek, *two hours a week.*
Civil Engineering, *two hours a week.*

Second Half-Year.

The following required studies:

1. Logic, *three hours a week.*
2. Physiology, *five hours a week.*
3. Rhetoric, *two hours a week.*
4. Elocution.

A sufficient number of the following elective courses to make up *six hours a week.*

Latin, *two hours a week.*
Greek, *two hours a week.*
German, *two hours a week.*
Zoology, *two hours a week.*
Political Economy, *two hours a week.*
Analytical Chemistry, *six hours a week.*
Physics, Laboratory work, *four hours a week.*
Advanced Mechanics, *two hours a week.*
Botany, *four hours a week.*
Civil Engineering, *two hours a week.*

Second Half-Year.

The following required studies:

1. Mechanics, *five hours a week.*
2. Rhetoric, *two hours a week.*
3. Elocution, *one hour a week.*
4. Applications of Calculus to General Geometry, *two hours a week.*
5. French or German, *three hours a week.*
6. Surveying, *three hours a week.*

Course not including an Ancient Language.

JUNIOR CLASS.

First Half-Year.

1. Rhetoric and English Literature, *three hours a week.*
2. Elocution.
3. Astronomy, *three hours a week.*
4. Chemistry, *three hours a week.*
5. Physics, *five hours a week.*

A sufficient number of the following elective courses to make up *two hours a week.*

German, *two hours a week.*
Civil Engineering, *two hours a week.*

Second Half-Year.

The following required studies:

1. Logic, *three hours a week.*
2. Physiology, *five hours a week.*
3. English Language, *two hours a week.*
4. Elocution.

A sufficient number of the following elective courses to make up *six hours a week.*

German, *two hours a week.*
Zoology, *two hours a week.*
Political Economy, *two hours a week.*
Analytical Chemistry, *six hours a week.*
Physics, Laboratory work, *four hours a week.*
Advanced Mechanics, *two hours a week.*
Botany, *four hours a week.*
Civil Engineering, *two hours a week.*

Course including an Ancient Language.

SENIOR CLASS.

First Half-Year.

The following required studies:

1. Intellectual Philosophy, *five hours a week.*
2. History, *five hours a week.*

A sufficient number of the following elective courses to make up *six hours a week.*

Roman Law and French, *two hours a week.*
Latin, *two hours a week.*
Greek, *two hours a week.*
German, *two hours a week.*
Analytical Chemistry, *six hours a week.*
Civil Engineering, *two hours a week.*
Geology, *four hours a week.*

Second Half-Year.

The following required studies:

1. Moral Philosophy and Natural Theology, *five hours a week.*
2. History, *five hours a week.*
3. Agricultural Zoology (a required course for students on State Scholarships), *one hour a week.*

A sufficient number of the following elective courses to make up *five hours a week* for students on State Scholarships; and *six hours a week* for all others.

Lectures on History of Philosophy, *one hour a week.*
Latin, *two hours a week.*
Greek, *two hours a week.*
French, *two hours a week.*
German, *two hours a week.*
Political Economy, *two hours a week.*
Botany, *four hours a week.*
Civil Engineering, *two hours a week.*
Geology, *one hour a week.*
Analytical Chemistry, *six hours a week.*
International Law, *one hour a week.*

Course not including an Ancient Language.

SENIOR CLASS.

First Half-Year.

The following required studies:

1. Intellectual Philosophy, *five hours a week.*
2. History, *six hours a week.*

A sufficient number of the following elective courses to make up *six hours a week.*

Roman Law and French, *two hours a week.*
German, *two hours a week.*
Analytical Chemistry, *six hours a week.*
Civil Engineering, *two hours a week.*
Geology, *four hours a week.*

Second Half-Year.

The following required studies:

1. Moral Philosophy and Natural Theology, *five hours a week.*
2. History, *five hours a week.*
3. Agricultural Zoology (a required course for students on State Scholarships), *one hour a week.*

A sufficient number of the following elective courses to make up *five hours a week* for students on State Scholarships; and *six hours a week* for all others.

Lectures on History of Philosophy, *one hour a week.*
French, *two hours a week.*
German, *two hours a week.*
Political Economy, *two hours a week.*
Botany, *four hours a week.*
Civil Engineering, *two hours a week.*
Geology, *one hour a week.*
Analytical Chemistry, *six hours a week.*
International Law, *one hour a week.*

DEPARTMENTS OF PRACTICAL SCIENCE.

Departments of Practical Science have been established in the University for the benefit of students who wish to prepare themselves for such pursuits as require especially the knowledge of mathematical and of physical science and their applications to industrial arts.

In these departments provision has also been made for courses of instruction in "such branches of learning as are related to Agricultural and the Mechanic arts." This provision has been made in accordance with an "Act of Congress granting lands for the establishing of Agricultural Colleges," and with "Resolutions of the General Assembly of the State of Rhode Island accepting these lands, and assigning the same to Brown University." Students who enter only for these studies, either in full or in part, are subject to the same conditions of admission as for any select course; and when they have duly pursued such studies, they will be entitled to a certificate stating the time of their University residence, and the amount of their acquisitions. They may, however, pursue these studies in connection with "the regular scientific and classical studies of the University," and when they have so pursued them as to fulfill the requirements for the degree of Bachelor of Arts or of Bachelor of Philosophy, they will be entitled to these degrees.

I. CHEMISTRY APPLIED TO THE ARTS.

The Chemical Laboratory is open to students (except on Saturdays) from 8.30 A. M. to 2.30 P. M.

It is the design of this department to teach students Analytical chemistry, and then to direct their studies to the practical applications of chemistry. Attention is given to metallurgy, pharmacy, medical chemistry, agricultural chemistry, and the application of chemistry to manufacturing processes.

The course is not confined to undergraduates; other persons — if prepared to pursue the study to advantage — are admitted to the Laboratory. But a knowledge of the general principles of Chemistry is absolutely necessary to profitable study in this department.

The text-books used are:

Appleton's Qualitative Chemical Analysis, and Appleton's Quantitative Chemical Analysis, Thorpe's Inorganic Chemistry, Thorpe's Chemical Problems, Cairns's Quantitative Analysis.

II. CIVIL ENGINEERING.

The regular course in this department occupies four years, but a longer or shorter course may be pursued, according to the wants or abilities of students. Those who are unable to pursue a full course, will find the studies so arranged that the knowledge and practice acquired in only a partial course will be practical and available. Ample provision will be made for the instruction of any who desire a more extended course than is here indicated, in Engineering and in Higher Mathematics.

The following is the order of study for the regular course:

First Year. Use of mathematical instruments, including Line drawing, Pen shading, Graphical construction of Plane problems; Free-hand

drawing and shading; use of Mathematical tables; Trigonometry, and its application to the measurement of areas; Plane surveying, including the theory and adjustment of instruments, Field practice, Plotting surveys, and descriptive Geometry.

Second Year. Differential and integral Calculus; Shades and Shadows and linear Perspective, and Isometrical Drawing.

Third Year. Theory of structure, embracing the construction of foundations, Stone and Brick masonry, and detailed drawings of the same; Calculation and geometrical representation of the strain on trusses and girders; Drawing of Plans, Profiles, Elevations, and Sections.

Construction of machinery and bridges, and drawings of the same; Strength of materials used in construction; Estimation of resistance of friction and rigidity; and Hydraulics, embracing the structure and use of hydraulic machines, the investigation of the laws which govern the flow of water from reservoirs and the flow of water in rivers, canal and conduit pipes, and water used as a motor.

Fourth Year. Weisbach's Mechanics, or Mahan's Civil Engineering.

To pursue this course to the best advantage, the following mathematical studies taught in the University should be pursued in connection with those above mentioned, viz.: Algebra, Geometry, Plane and Spherical Trigonometry, Analytical Geometry, and Calculus.

Students desiring admission to this course are subjected to an examination on the same amount of Mathematics as is required of candidates entering for a degree.

III. PHYSICS.

The laboratory of the Department of Physics provides instruction during the second half-year to a limited number of students, who show special aptitude for this study, and are desirous of familiarizing themselves with the construction and use of physical apparatus and with the means of investigation.

A course of experiments in Sound, Light, Heat, and Electricity, involving the principal phenomena and most important methods of measurement, has been arranged with reference to the needs of beginners. Apparatus available for more advanced students and for researches has been purchased recently, with the view of meeting the demand for special instruction in Physics.

IV. BOTANY.

Instruction in Botany is given by means of lectures. The course embraces the necessary morphological and physiological subjects, and is supplemented by practical class-work in which each student employs the microscope in examining specimens. Great stress is laid upon the importance of drawing from nature, and students are taught to make illustrative sketches.

Each student of botany is expected to pay a small fee for the cost of specimens used in class-work.

At the proper season excursions are made, under the guidance of the Professor, to neighboring points of botanical interest. At such times students are shown how to collect and preserve specimens.

The following works are recommended for reference: Gray's Botanical Text-Book, Gray's Manual of the Northern States, Sachs's Text-Book of Botany, Le Maout and De Caisne's General System of Botany, Bessey's Botany.

Under proper restrictions, the Herbaria are made accessible to students, for the determination and comparison of species; every courtesy will also be extended to visiting botanists who desire to consult them.

The Bailey Herbarium.

This collection, presented by Professor W. Whitman Bailey, B. P., contains *eighteen hundred* specimens, and about *fifteen hundred* species, American and foreign. Besides the donor's own

personal collection, it contains many specimens from the herbarium of Mr. J. L. Queket, the distinguished English microscopist. It is rich in ferns.

Herbarium Olneyanum.

This valuable collection, presented to BROWN UNIVERSITY by the will of the late STEPHEN THAYER OLNEY, of Providence, is estimated to number about *forty thousand* specimens; it illustrates American botany, and is particularly rich in the plants of Rhode Island. The specimens are in good order for consultation.

Mr. Olney's botanical studies, continuing for many years, brought him into relations of active exchange with the leading collectors of this country. He also made large purchases of plants, and thus accumulated a valuable mass of material which it would now be difficult to duplicate. The correspondence which accompanies the herbarium covers a period of thirty or more years. It includes communications from Sir Joseph D. Hooker of Kew, Baron von Mueller of Melbourne, Professor Asa Gray, Professor John Torrey, Professor D. C. Eaton, Mr. Francis Boott, and other eminent botanists. Mr. Olney was an acknowledged authority on the difficult genus *Carex*, and his collection of sedges must for a long time remain exceptional. In the last years of his life he began a monograph of *Carex*, the notes of which, and the drawings by Mr. J. H. Emerton, accompany his bequest.

The Bennett Herbarium.

This valuable herbarium is the gift of Mr. JAMES LAWRENCE BENNETT, an accomplished amateur botanist of Providence.

It includes about *thirteen thousand* species, and probably over *thirty thousand* specimens, and has involved thirty years of assiduous labor in its accumulation. American botany is well represented, but the foreign specimens are the more numerous; many of them are derived from remote and, in some cases, almost inaccessible regions of the globe.

The completeness with which the natural orders are illustrated, as well as the wide geographical range exhibited, make this herbarium an important addition to the means of instruction in the University.

V. ZOOLOGY AND GEOLOGY.

Zoology with especial reference to Palæontology, is taught by lectures, laboratory work (forming a course of comparative anatomy), and by dredging and collecting excursions in Narragansett Bay and near the city, with especial reference to the local fauna.

Instruction in Geology is given by means of lectures and models, laboratory work and field excursions, with special reference to the geology, structural and economic, of Rhode Island.

Within the last three years there have been added for use in the lectures and laboratory work, several of Guyot's Physical wall maps; two Zentmeyer's Histological stands, with a number of objectives made by Gundlach; osteological preparations; a set of Sopwith's geological models; and a large model in plaster, in sections, made by the Hayden Survey, illustrating the geology of the Elk Mountains, Colorado. Besides these, a set of microscopic slides, of use in the study of lithology, has been purchased, as well as a collection of twenty sets of the more typical minerals and rocks for use by each student.

Besides field excursions near the city, the instructor has taken out a small party to the Western territories, and proposes occasionally to organize similar excursions to other parts of the country.

VI. AGRICULTURE.

The course of instruction in Agriculture includes the courses in the preparatory branches, Chemistry and Physics, Botany, Physiology, Zoology, and comparative Anatomy. It also includes special lectures on Agriculture. These relate to the study of soils

and applied economic Zoology. The course of instruction is illustrated by specimens from the Museum of Natural History, and by field excursions. It also includes practical instruction in obtaining and preserving specimens, and in taxidermy.

MUSEUM OF NATURAL HISTORY AND ANTHROPOLOGY

IN RHODE ISLAND HALL.

The Museum is under the care of Professor John W. P. Jenks. The collections it now contains, as classified and arranged by Professor Jenks, are as follows:

1.	In Zoology, including skeletons for Comparative Anatomy,	
	Quadrupeds	200
	Birds (500 mounted)	5,000
	Reptiles and Fishes	700
	Insects	10,000
	Crustaceans	1,000
	Worms	500
	Mollusks	13,500
	Echinoderms	150
	Corals and Hydroids	200
	Sponges	40
2.	In Mineralogy, specimens	9,659
3.	In Geology and Palæontology, specimens	5,000
4.	Botany (miscellaneous collections)	500
	(For account of Herbaria see pp. 42–43.)	
5.	Indian Implements and Relics, specimens	1,000
6.	Implements and curiosities of other uncivilized peoples,	900
7.	Coins and Medals	3,000

LIBRARY.

The University Library is now arranged in the new fire proof building erected by the munificence of the late John Carter Brown, A. M.

According to the last annual report of the Library Committee, the University Library consists of above *fifty-three thousand* volumes, and *seventeen thousand* unbound pamphlets.

Upon the Library tables may be found the most important American and foreign periodicals, pertaining to science, history, literature, bibliography, philology, and the classics.

During the presidency of Dr. Wayland, a permanent Library fund of Twenty-five thousand dollars was raised. It has since been increased to above Thirty-five thousand dollars. Of this the sum of Five hundred dollars was derived from a bequest of President Wayland; Ten thousand dollars from a bequest of the late Stephen Thayer Olney, of Providence.

Books are purchased from the income of the library funds under the direction of a joint committee of six persons, appointed annually by the Corporation and the Faculty of the University.

During the past year the Library has received valuable gifts, among which may be mentioned the following:

Catalogue of the Boston Athenæum, vol. 5, completing the work, from the Athenæum; Diplomatic Review, a set of 25 volumes, stitched and wrappered to be bound in 7 volumes, from the office of the Review, London, per C. D. Collet, Esq., Agent; also from the same, a set of David Urquhart's Pamphlets, various dates, in 5 volumes; Penny Cyclopædia, 30 volumes quarto, and Causes Celebres, 17 volumes, a bequest from the late Isaac Ray, M. D.; Billings' Index Catalogue of Medical Works, vol. 2, from the Surgeon-General of the United States Army; Cathcart's Baptist Encyclopædia, illustrated, from the Librarian, R. A. Guild; Twenty-eight volumes of medical works belonging to the library of the late Usher Parsons, M D., from his son, Professor Charles W. Parsons, M. D.; Six hundred pamphlets, from the President, Rev. Dr. E. G. Robinson; Revue de Droit International, vol. 12, from the late Hon. Wm. B. Lawrence; Ronald's Catalogue of Books and Papers relating to Electricity and Magnetism, from

Frederic Allen Gower, Esq., of London and Paris; The Nation, vol 32, from Professor John Howard Appleton; The Swedenborg Library, 12 volumes, from the American Swedenborg Printing and Publishing Society, per B. F. Barrett, Esq., Secretary; Mone's Lateinische Hymnen des Mittelalters, 3 vols., from Professor J. L. Lincoln; Two copies of Green's Centennial Address before the Massachusetts Medical Society, 4 bound volumes and 104 reports and pamphlets, from Samuel S. Green, M. D., Mayor of Boston; Calvin's Institutes, with Livermore's Scripture Index, 2 volumes, from Rev. S. A. Livermore; Reeve's Monograph of the Genus Helix, 1,495 colored plates, 2 volumes quarto, from Horace F. Carpenter, Esq.; Biographical Encyclopædia of Ohio, quarto, with steel engravings, and Biographical Encyclopædia of Maryland and District of Columbia, quarto, with steel engravings, from the publisher, J. H. Cheever, Esq.; Massachusetts Historical Collections, Fifth Series, vol. 7, from the Society; Coquerel on the Fine Arts, Newman on the Soul, and Wellbeloved, Smith and Porter's Revision of the Scriptures, 3 volumes, from the American Unitarian Association, per George W. Fox, Esq., Secretary; Ninety-nine volumes, octavos and quartos, from the various Departments at Washington, D. C.

In term-time the Library is open from 10 A. M. to 4 P. M. on every week day except Saturday; on Saturdays it is open from 10 A. M. to 1 P. M. During vacations it is open on Saturdays.

The following are the General Regulations, relating to the use of the Library, and adopted by the Corporation June 20, 1878:

1. It is the desire of the Corporation that, so far as may be practicable, the books of the Library shall be consulted and used at the tables, without being taken from the Library building.

2. The Library shall be open not less than four hours a day, except Saturdays, when it shall be closed at twelve. During vacations it shall be open not less than once a week, at such hours as the Library Committee may prescribe.

3. The members of the Corporation, the President, Professors, Instructors, Tutors, Registrar, resident graduates, and all donors to the funds of the University to the amount of five hundred dollars, residing in the city of Providence, together with any others to whom the Corporation or the Library Committee may grant the privilege, shall be entitled to the use of the Library without expense. The undergraduates

shall be entitled to the use of the Library, and shall be charged therefor the sum of five dollars per annum.

4. The privilege of reading or consulting books in the Library, during Library hours, shall be extended to college graduates generally, to clergymen of every denomination, and to all other persons on whom the Corporation or Library Committee may from time to time confer it.

5. Not more than three volumes at one time shall be allowed to the undergraduates, who may keep the same two weeks, with the privilege of renewal at the discretion of the Librarian.

6. The officers of instruction shall not, without special permission of the Library Committee, be allowed to borrow more than twenty volumes at a time, and they shall not keep the same longer than three months.

7. Borrowers can take books only after they have been charged to them by the Librarian or his Assistant, and if they send for books, they must sign and date an order.

8. For every book not returned at the time specified, the borrower shall pay a fine of ten cents a day until it shall be returned.

9. No person shall lend to any one a library book, or let it go out of his personal custody; and the borrower alone shall be responsible for the book while it is charged to him.

10. No borrower shall write or mark in a book belonging to the Library, or turn down the leaves of the same.

11. When there are two or more copies of the same book, the least costly or rare shall be loaned first; and the Librarian shall use his discretion in regard to the lending of works not easily replaced.

12. Undergraduates who leave Providence for an absence of more than one week, must first return all borrowed books.

13. All the books, whether in possession of undergraduates, resident graduates, officers of instruction, members of the Corporation, or others, shall be returned to the Library on or before the Wednesday preceding Commencement. Any person who may fail to comply with this requirement, shall pay one dollar for each volume of which he retains possession.

N. B.—Degrees are not granted until the candidate has exhibited to the Registrar a certificate that he has paid all fines incurred, and returned in good order, or replaced, every book that he has borrowed; or, in default thereof, has deposited with the Librarian the full value of it in money.

PUBLIC WORSHIP.

The exercises of every day commence with Prayers in the College Chapel. All students are also required to attend public worship on Sunday. For this purpose, each one reports to the President, at the beginning of the term, the church which he will attend.

COLLECTION OF PORTRAITS.

Through the liberality of the friends of the College, many portraits have been presented to it; the most of them are deposited in the picture-gallery in Rhode Island Hall. The collection includes portraits of benefactors of the University, of some of its former officers, and men whose names are conspicuous in the earlier or the more recent annals of Rhode Island.

This collection has been enriched during the past year by the following gifts, presented through a committee appointed by the Alumni "for the purpose of procuring and placing within the walls of Brown University, the portraits of her Presidents, Professors, distinguished graduates and benefactors":

A portrait of Romeo Elton, D. D. (class of 1813), Professor and Trustee of Brown University. The gift of a few of his old pupils. An oil painting by Mr. J. S. Lincoln.

A portrait of Hon. Isaac Davis, LL. D. (class of 1822), Trustee and Fellow of Brown University. An oil painting by Mr. H. A. Luke.

A portrait of Alexander Duncan, A. M., Trustee and Fellow of Brown University. An oil painting by Lazarus.

A portrait of Horatio Nelson Slater, A. M., Trustee and Fellow of Brown University. An oil painting by Fagnani.

GYMNASIUM.

Students may have the use of the gymnasium of the Young Men's Christian Association, a gymnasium recently organized and equipped with a large amount of the best forms of apparatus.

By the terms of the arrangement the individual student pays a small fee to the Association, and the Corporation pays the additional sum necessary.

SEMI-ANNUAL EXAMINATIONS.

Examinations of all the classes are held at the close of each half-year.

Some examinations are conducted by writing, some are oral, while in certain cases the same class is subjected to both tests. If, upon examination in a given study, a student receives a mark which is less than one-half the maximum offered, he fails to "pass" in that study, and must prepare himself for a subsequent examination.

Committees of Examination have been appointed for the several departments as follows:

1. Greek.

Rev. Thatcher Thayer, D. D. — Merrick Lyon, LL. D.
Rev. Heman Lincoln, D. D. — Edward H. Cutler, A. M.
Rev. John B. G. Pidge, A. M.

2. Latin.

Rev. John C. Stockbridge, D. D. — Horatio N. Slater, Jr., A. M.
Alexander Farnum, A. M. — Frederick W. Tilton, A. M.
Charles B. Goff, A. M. — Rev. C. H. Wheeler, A. M.

3. German.

Rev. Alvah Hovey, D. D. — Samuel W. Peckham, A. M.
Stephen H. Arnold, Esq. — Rev. Carl W. Ernst, A. M.
Gustav Radeke, M. D. — Joseph C. Ely, LL. B.

4. French.

William Goddard, A. M. Edward T. Caswell, M. D.
Edwin M. Snow, M. D. Howard M. Rice, A. M.
David W. Hoyt, A. M.

5. Rhetoric and English Literature.

Rev. Adoniram J. Gordon, D. D. Rev. J. G. Vose, D. D.
Rt. Rev. Thomas M. Clark, D. D. Rev. S. D. Phelps, D. D.
J. Carter Brown Woods, LL. B.

6. Physiology.

Edwin M. Snow, M. D. ~~J. C. Greenough, A. M.~~
S. S. Keene, M. D. Oliver C. Wiggin, M. D.
L. W. Russell, Esq.

7. Physics.

Hon. Rowland Hazard, A. M. Prof. George I. Chace, LL. D.
William A. Mowry, A. M. Hon. Samuel Powel.
Arnold B. Chace, A. M. Prof. John Peirce, A. M.
George H. Corliss, A. M.

8. History and Political Economy.

Hon. Charles S. Bradley, LL. D. Prof. William Gammell, LL. D.
Hon. John R. Bartlett, LL. D. Rev. Augustus Woodbury, A. M.

9. Intellectual and Moral Philosophy.

Rev. Alva Woods, D. D. Rowland G. Hazard, LL. D.
Rev. Alvah Hovey, D. D., LL. D. Prof. George I. Chace, LL. D.
Rev. Daniel Leach, D. D.

10. Mathematics and Astronomy.

Hon. William F. Sayles. Charles P. Robinson, A. M.
J. Herbert Shedd, Esq. Edward Pearce, Jr., A. M.
Emory Lyon, M. D. William T. Peck, A. M.

11. Chemistry.

Arnold B. Chace, A. M. Marshall Woods, M. D.
Prof. John Peirce, A. M. Amasa M. Eaton, LL. B.

12. Logic.

Rev. A. H. Granger, D. D. Hon. Thomas Durfee, LL. D.
William W. Douglas, LL. B. Rev. Elias H. Johnson, D. D.

EXPENSES.

The College expenses for the year are as follows:

Tuition, $50.00 per half-year . .	$100 00
Room rent, $10.00 per half-year . .	20 00
(But rooms or suites in Slater Hall vary in rent from $25.00 to $155.00 per annum.)	
Use of Library, $2.50 per half-year . .	5 00
Registrar's salary, $2.00 per half-year . .	4 00
Public fuel, Servants' hire, Printing, } Charged at cost, but average about } .	22 00
	$151 00

If a student occupies a room alone, his rent and servants' hire are doubled.

Upon admission to College, every student is charged a matriculation fee of $5.00.

The term bills are paid strictly in advance, at the commencement of each half-year.

Board is not furnished in College. The Registrar keeps a list of the names of families in the city by whom board is furnished to students. The following are the usual rates:

Board, at from $3.00 to $5.00 per week. By the formation of boarding clubs, students are enabled to obtain board at a reduced cost. (The larger proportion of students pay at present about $3.00 per week for board.) Board, with furnished rooms, from $5.00 to $7.00 per week.

The foregoing estimate for tuition does not include the fees for instruction in Analytical Chemistry.

The expenses of a student who takes a course of study of two hours daily in the Chemical Laboratory, are (for each half-year) as follows:

Instruction	$16 66
Gas, Chemicals, etc.	18 34
Breakage (varying with the student's care) about .	3 00
	$38 00

Students who take courses of four hours or of six hours daily, pay respectively double or treble the above amounts.

PECUNIARY AID TO STUDENTS.

Scholarships.

Among the various forms of aid offered to students, there are about one hundred scholarships.

There are *sixty-four* Scholarships of One Thousand Dollars each, the income of which is given, under the direction of a committee appointed by the Corporation, to meritorious students who may need pecuniary assistance; *but a scholarship is forfeited if the candidate incurs college censure, or fails to secure at least seventy-five per cent. of the maximum mark.*

The Nicholas Brown Scholarships. Eleven, founded by a bequest made by Nicholas Brown.

The University Scholarships. Four, from College funds appropriated by the Corporation to this use.

The President's Scholarship. Founded by Barnas Sears, when President of the College.

Alva Woods Scholarships. Six, founded by Alva Woods.

James H. Duncan Scholarship. Founded by James H. Duncan.

Isaac Davis Scholarship. Founded by Isaac Davis.

Arnold Whipple Scholarship. Founded in memory of Arnold Whipple, by Mrs. Arnold Whipple.

Ephraim Wheaton Scholarship. Founded by James Wheaton.

Joseph Brown Scholarship. Founded by Mrs. E. B. Rogers.

Gardner Colby Scholarship. Founded by Gardner Colby.

James Y. Smith Scholarship. Founded by James Y. Smith.

S. S. Bradford Scholarships. Two, founded by S. S. Bradford.

Francis R. Arnold Scholarship. Founded by Mrs. Francis R. Arnold.

Cornelia E. Green Scholarship. Founded by Mrs. Cornelia E. Green.

Crocker Scholarship. Founded by Robert H. Ives and Thomas P. Ives, trustees.

Clark Scholarship. Founded by Robert H. Ives and Thomas P. Ives, trustees.

Albert Day Scholarship. Founded by Albert Day.

Henry P. Kent Scholarship. Founded by Henry P. Kent.

Romeo Elton Scholarship. Founded by Romeo Elton.

Annie E. Waters Scholarships. Five, founded by Mrs. Annie E. Waters.

L. Fairbrother Scholarship. Founded by Mrs. L. Fairbrother.

George Lawton Scholarship. Founded by George Lawton.

John P. Crozer Scholarship. Founded by Mrs. Margaret Bucknell.

Horatio N. Slater Scholarship. Founded by Horatio N. Slater.

Earl P. Mason Scholarship. Founded by Earl P. Mason.

Newport Scholarship. Founded by William Sanford Rogers.

Alexis Caswell Scholarship. Founded by Alexis Caswell.

George K. and H. A. Pevear Scholarship. Founded by George K. and H. A. Pevear.

Joseph C. Hartshorn Scholarship. Founded by Joseph C. Hartshorn.

Rogers High School Scholarship. Founded by William Sanford Rogers.

James Wheaton Scholarship. Founded by James Wheaton.

Charles Thurber Scholarship. Founded by Charles Thurber.

Pardon Miller Scholarship. Founded by Mrs. Ann E. Miller.

Hezekiah S. Chase Scholarship. Founded by Hezekiah S. Chase.

William Bucknell Scholarship. Founded by William Bucknell.

Austin Merrick Scholarship. Founded by Mrs. Olive E. Merrick.

Jackson Scholarships. Three, founded by Henry Jackson.

Mumford Scholarship. Founded by Mrs. Louisa D. Mumford.

Henry Clifford Knight Scholarship. Founded by Miss Amelia S. Knight, in memory of her brother, a member of the Class of 1875.

Besides the above scholarships, there are others, the assignment of which is made subject to special provisions. These are as follows:

The Bartlett Scholarship. Founded by Mrs. Elizabeth Slater Bartlett, by a gift of four thousand dollars, the income of which is to be "devoted to the support of one or more students needing pecuniary aid, and giving promise by studious aims and by character and scholarship of rising to distinction and usefulness."

The Glover Scholarships. Founded by a gift of five thousand dollars, from Henry R. Glover, "in memory of his father, Sam-

UEL GLOVER, a graduate of the College, of the Class of 1808, and of his brother, SAMUEL GLOVER, JR., of the Class of 1839." Assignment is made upon the basis of character and attainments.

The Scholarship of the Class of 1838, of thirty-eight hundred dollars. Founded by members of THE CLASS of 1838, and also assigned upon the basis of character and scholarship.

Scholarships of the Department of Agriculture. By Resolutions of the General Assembly of the STATE OF RHODE ISLAND, the national grant, "for the benefit of Agriculture and the Mechanic Arts," was given to Brown University; and the fund of fifty thousand dollars, which has accrued from this grant, is by agreement on the part of the University devoted to the education "of scholars, each at the rate of one hundred dollars per annum, to the extent of the entire annual income." Appointments to these scholarships are made, on the nomination of the General Assembly, by the Governor and Secretary of State, in conjunction with the President of the University.

The Philadelphia Alumni Scholarship. This scholarship has been created by the gift, from the "PHILADELPHIA ALUMNI ASSOCIATION OF BROWN UNIVERSITY," of the sum of fifteen hundred dollars. The award of this scholarship is to be in accordance with the following conditions:

"1st. That the scholarship be not confined to candidates for any one calling, or to the members of any one denomination.

"2d. That it be conferred on the basis of high attainments, mental and moral, and be, so far as practicable, open to competition, so that the possession of the scholarship shall testify to the qualifications of the possessor, and that it be limited to members of the two higher classes."

The Joseph Charles Hartshorn Scholarship. This is a second scholarship, founded by a gift of two thousand dollars, from the gentleman whose name it bears. The annual award is made in accordance with certain conditions prescribed by the donor.

The Sherman Scholarships. These are named, *the George J. Sherman Scholarship Number One*, and *the George J. Sherman Scholarship Number Two.* They are founded by the gift of two thousand dollars from the gentleman whose name they bear. Their assignment is subject to certain special conditions prescribed for each by the donor.

Aid Fund.

This is a fund of several thousand dollars, the income of which is applied — either by loan or by gift — to the assistance of deserving young men of limited means.

PREMIUMS.

I. For Excellence in Preparatory Studies.

The President's Premiums. These are derived from the income of a fund presented by Rev. Francis Wayland, D. D., while President of the University. They are awarded to those members of the Freshman Class, candidates for the degree of Bachelor of Arts, or of Bachelor of Philosophy, who are found, *upon special examination*, to have attained the highest excellence in the classical studies preparatory to admission to College. They are fixed by statute as follows:

A First Premium of fifteen dollars, and a second of ten dollars, for excellence in the Greek language.

A First Premium of fifteen dollars, and a second of ten dollars, for excellence in the Latin language.

The competitors are examined in the classical studies required as preparatory for admission to the College.

This year (1882), the award of these premiums was as follows:

Greek.

Two First Premiums: one to DAVID HENRY CHANDLER, instructed by Merrick Lyon, LL. D., in the University Grammar School.

The other to NORMAN MORRISON ISHAM, instructed by Charles B. Goff, A. M., in Mowry & Goff's English and Classical School, Providence.

The Second Premium to ARTHUR ROGERS, instructed by William T. Peck, A. M., in the Providence High School.

Latin.

The First Premium to THOMAS SESSIONS COLE, instructed by Alvin F. Pease, A. M., in the Pawtucket High School.

The Second Premium to HENRY LEXINGTON EVERETT, instructed by A. Carey Field, A. B., in the Worcester High School.

An additional *Second Premium* to ARTHUR ROGERS, instructed by William T. Peck, A. M., in the Providence High School.

Mathematics.

The Hartshorn Premiums. These are derived from the income of a fund of one thousand dollars presented by JOSEPH C. HARTSHORN, A. M., of the class of 1841; this income is appropriated to *three premiums.*

These are awarded to those members of the Freshman Class who are found, upon examination, to have excelled in the preparatory mathematical studies.

This year (1882), these Premiums were awarded as follows:

The First Premium to EDWARD CLIFTON BURNHAM, instructed by Alvin F. Pease, A. M., in the Pawtucket High School.

The Second Premium to EDMUND BURKE DELABARRE, instructed by Alexander Bevan, A. M., in Mowry and Goff's English and Classical School, Providence.

The Third Premium to HENRY LEXINGTON EVERETT, instructed by William Abbott, A. M., in the Worcester High School.

II. For Excellence in College Studies.

Carpenter Prizes for Elocution. These are: A First Prize of *sixty* dollars. A Second Prize of *thirty-six* dollars. A Third Prize of *twenty-four* dollars.

They are derived from the income of a fund established by THOMAS CARPENTER. They are awarded annually to the three members of the Sophomore Class to whom shall be assigned respectively the first, second, and third rank of excellence in elocution. The assignment is made by a committee appointed for the purpose, and after trial at a public exhibition given on the Monday evening before Commencement.

The competitors must be members of the Sophomore Class; they may declaim pieces in prose or verse, selected from English authors, but their selection must be approved by the Professor of Rhetoric; they must enter their names with this professor not later than on the tenth day before the exhibition.

The Committee of Award will consist of five members, and will be formed as follows: the Professor or Instructor in Elocution, who will be the Chairman, two persons elected by the Corporation, also two elected by the Sophomore Class during the first term of the year, it being understood that no one who is or has been a member of the class is eligible.

The Committee for 1882 awarded the prizes as follows:

The First, to CHARLES GREGORY KING, JR.

The Second, to EDWARD PRESBURY SMITH.

The Third, to AUGUSTUS ERVING SCOVILLE.

The Carpenter Premiums. These afford two premiums of sixty dollars each, derived from the income of a fund established by THOMAS CARPENTER and LYDIA CARPENTER.

These premiums are assigned at the *end of the Senior year*, to the two members of the Senior Class, who, "already on Scholarships, shall, in the judgment of the Faculty, unite in the highest

degree the three most important elements of success in life, ability, character, and attainment."

For the year 1881–82, the Carpenter Premiums were awarded to

William Henry Pomeroy

and

Walter Ballou Jacobs.

The Howell Premium. This fund, amounting to one thousand dollars, was presented by the late Gamaliel Lyman Dwight. The income is given, at the *close of the first half of the Junior year*, to the student "who, having a good record of deportment, has the highest rank in Mathematics and Natural Philosophy."

For the year 1881–82 this premium was awarded (February, 1882), to

Henry Parker Manning.

The Dunn Premium. This fund, amounting to something over eight hundred dollars, was presented by pupils and friends of the late Professor Robinson Potter Dunn, D. D., the income to be give at the *end of the Junior year*, to the student having the highest standing in rhetorical studies.

For the year 1881–82 this premium was awarded to

Wilson Gardner Crosby.

Class of 1873 Fund. This fund, amounting to five hundred dollars, was presented to the University by the Class of 1873, on the condition that its income should be devoted to constituting a prize for an Essay. The prize is annually offered for competition to members of the Senior Class.

On Commencement Day, June 21, 1882, the President announced the prize as assigned to the essay written by

Herbert McIntosh.

The Foster Premium. This premium is derived from the income of a fund of three thousand dollars bequeathed to the University by the late Hon. La Fayette Sabine Foster, LL. D., of the Class of 1828.

In accordance with the terms of the will of the donor, the income of this fund is to be "annually paid to that scholar of the institution who passes the best examination in the Greek language, the examination to be made in the first, third, and twenty-fourth books of Homer's Iliad, or in the Oration on the Crown by Demosthenes."

The next examination, open to the members of the Senior Class, will be held early in May, 1883. Candidates will be examined in the Oration on the Crown.

On Commencement Day, June 21, 1882, the President announced the prize as awarded to

George Rice Hovey.

COMMENCEMENT HONORS IN THE CLASS OF 1882.

The Valedictory Address, William Henry Pomeroy.
The Salutatory Oration, William Everett Jillson.
The Classical Oration, Walter Ballou Jacobs.
The Philosophical Oration, George Rice Hovey.

DEGREES CONFERRED IN 1882.

THE DEGREE OF BACHELOR OF ARTS.

Upon the following Members of the Class of 1882:

Ira Richard Allen,
Charles Lincoln Bartlett,
Edward Clarence Bixby,

Simeon Borden, Jr.,
Benjamin Ellwood Bowerman,
Frank Fontelle Brigham,
William Albert Buxton,
Stewart Chaplin,
Frank Howard Davis,
Asa Reed Dilts, Jr.,
Frank Adelbert Everett,
Samuel Walter Foss,
Austin Powers Foster,
William Allen Francis,
Newton Stone Fuller,
Arthur Edward Gage,
Fred Luther Gamage,
Albert Greene,
Elmer Samuel Hosmer,
George Rice Hovey,
George Huntington,
Walter Ballou Jacobs,
William Everett Jillson,
Julius Arthur Johnson,
William Robert Keegan,
Arthur Thomas Lawton,
William Turell Learned,
William Clawson Lott,
Herbert McIntosh,
Winfield George Merrill,
Osman Cleander Baker Nason,
William Richard Park,
Charles Hart Payne,
John Milton Payne,
William Henry Pomeroy,
John Augustine Sanford,
Nathaniel Seabury,
Jefferson Shiel,
James Hovey Spencer,
Edward Allen Swain,
George Spring Taft,

Herbert Edgar Thayer,
Charles Rawson Thurston,
Henry Anthony Tillinghast,
William Howe Tolman,
William Bullock Waterman,
John Loy Williams,
Charles Haddon Spurgeon Weaver.

THE DEGREE OF BACHELOR OF PHILOSOPHY,

Upon the following Members of the Class of 1882:

William Benezet Bogert,
Edward Benjamin Cole,
Benjamin Laisdell Herr,
Frederick Eugene Shaw.

THE DEGREE OF MASTER OF ARTS,

upon

Enoch Perrine, of the Class of 1874,
Edward Langdon Bogert, of the Class of 1875.

And upon the following members of the Class of 1879:

Edward Ernest Atkinson,
Wallace Peter Dick,
Charles Henry James Douglas,
Stephen Ostrom Edwards,
Henry Webster Kegwin,
Walter Lee Munro,
William Cooper Readio,
Orin Jones Sturgis,
Charles James Tucker.

THE DEGREE OF MASTER OF ARTS,

upon

James Madison Morton, of the Class of 1860,
Hon. Jonathan Chace, Member of Congress from Rhode Island,
Hon. LeBaron Bradford Colt, Judge of the District Court of Rhode Island.

THE DEGREE OF DOCTOR OF DIVINITY,

UPON

Rev. Albert Hale Plumb, A. B., of the Class of 1855,
Rev. Henry Francis Colby, A. M., of the Class of 1862.

THE DEGREE OF DOCTOR OF LAWS,

UPON

Prof. Henry Simmons Frieze, LL. D., of the Class of 1841,
Hon. Edward Lillie Pierce, LL. B., of the Class of 1850,
Hon. George William Curtis, LL. D.,
Hon. Horace Gray, Justice of the Supreme Court of the United States.

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